



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

April 17, 2020

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

**RE: Hite Creek WQTC, KPDES No: KY0022420
Discharge Monitoring Report for March 2020.**

Dear Mrs. Dennis:

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

Also attached are discharge reports and the first 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)587-5858.

Sincerely,

Duane V. Wright
Process Supervisor

DVW/ Hite Creek. 3/20.

Enclosures

Cc: V. Graves
R. Shaw

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:	001-1A SANITARY WASTEWATER		

Report Dates & Status					
Monitoring Period:	From 03/01/20 to 03/31/20	DMR Due Date:	04/28/20	Status:	NetDMR Validated

Considerations for Form Completion
Parameter 00610 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

Principal Executive Officer					
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					=	9.0					19 - mg/L	0	03/07 - Three Per Week	GR - GRAB					
					Permit Req.					>=	7.0 INST MIN					19 - mg/L		03/07 - Three Per Week	GR - GRAB					
					Value NODI																			
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.1			=	7.4	12 - SU	0	03/07 - Three Per Week	GR - GRAB					
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		03/07 - Three Per Week	GR - GRAB					
					Value NODI																			
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	560.0	=	739.0			=	10.0	=	13.0	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24					
					Permit Req.	<=	1502.0 MO AVG	<=	2253.0 MX WK AV	26 - lb/d	<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L	03/07 - Three Per Week		24 - COMP24						
					Value NODI																			
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample					=	204.0			=	253.0	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24					
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	03/07 - Three Per Week	24 - COMP24		
					Value NODI																			
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample					=	9.9			=	11.0	19 - mg/L	0	01/07 - Weekly	24 - COMP24					
					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]	G - Raw Sewage Influent	0	--	Sample					=	25.0			=	32.0	19 - mg/L	0	01/07 - Weekly	24 - COMP24					
					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					=	1.0			=	1.0	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24					
					Permit Req.					<=	5.0 MO AVG	<=	7.5 MX WK AV	19 - mg/L	03/07 - Three Per Week	24 - COMP24								
					Value NODI																			
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample					=	0.4			=	0.5	19 - mg/L	0	01/07 - Weekly	24 - COMP24					
					Permit Req.					<=	2.0 MO AVG	<=	3.0 MX WK AV	19 - mg/L	01/07 - Weekly	24 - COMP24								
					Value NODI																			
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	2	--	Sample					=	3.96			=	5.3	19 - mg/L	0	01/07 - Weekly	24 - COMP24					
					Permit Req.														Req Mon MO AVG	Req Mon 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	=	5.341	=	6.824	03 - MGD							0	99/99 - Continuous	RC - Recorder (auto)					
					Permit Req.															Req Mon MO AVG	Req Mon MX WK AV	03 - MGD		
					Value NODI																			
51040	E. coli	1 - Effluent Gross	0	--	Sample					=	10.0			=	27.0	13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB					
					Permit Req.					<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL	03/07 - Three Per Week	GR - GRAB								
					Value NODI																			
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	242.0	=	447.0	26 - lb/d			=	5.0	=	8.0	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24				
					Permit Req.	<=	501.0 MO AVG	<=	751.0 MX WK AV	26 - lb/d	<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L	03/07 - Three Per Week	24 - COMP24							
					Value NODI																			
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample					=	133.0			=	188.0	19 - mg/L	0	03/07 - Three Per Week	24 - COMP24					
					Permit Req.															Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L		
					Value NODI																			
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample					=	97.0					23 - %	0	01/30 - Monthly	CA - CALCTD					
					Permit Req.					>=	85.0 MO AV MN				23 - %	01/30 - Monthly		CA - CALCTD						
					Value NODI																			
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	95.0					23 - %	0	01/30 - Monthly	CA - CALCTD					
					Permit Req.					>=	85.0 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
HiteCreek.pdf	pdf	15493.0
HCMOR032020.pdf	pdf	50238.0
HC032020_COVER.pdf	pdf	31902.0

Report Last Saved By

Hite Creek WQTC MSD

User: WRIGHTDUANE
Name: Duane Wright
E-Mail: duane.wright@louisvillemmsd.org
Date/Time: 2020-04-22 08:42 (Time Zone: -04:00)

Report Last Signed By

User: WRIGHTDUANE
Name: Duane Wright
E-Mail: duane.wright@louisvillemmsd.org
Date/Time: 2020-04-22 08:44 (Time Zone: -04:00)

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:	001-2A QUARTERLY BIOMONITORING														
Report Dates & Status																				
Monitoring Period:	From 01/01/20 to 03/31/20				DMR Due Date:	04/28/20				Status:	NetDMR Validated									
Considerations for Form Completion																				
Principal Executive Officer																				
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				
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--											<	1.0	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
															<=	1.0 MAXIMUM	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
					Sample															
					Permit Req.															
					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			
					HC032020_COVER.pdf						pdf						31902.0			
Report Last Saved By																				
Hite Creek WQTC MSD																				
User:	WRIGHTDUANE																			
Name:	Duane Wright																			
E-Mail:	duane.wright@louisvillemmsd.org																			
Date/Time:	2020-04-22 08:43 (Time Zone: -04:00)																			
Report Last Signed By																				
User:	WRIGHTDUANE																			
Name:	Duane Wright																			
E-Mail:	duane.wright@louisvillemmsd.org																			
Date/Time:	2020-04-22 08:44 (Time Zone: -04:00)																			

NAME OF TREATMENT PLANT HITE CREEK WTP

COUNTY JEFFERSON

MONTH OF: March 2020

KPDDES PERMIT NUMBER KY0022420

PLANT CAPACITY 4.4 MGD

RECEIVING STREAM HITE CREEK

DATE	TOTAL FLOW EFF (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	MGD/DAY	MLSS (mg/L)	MLSS GAL	M ³ /ST ³ ED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L)	MLVSS (mg/L)	SETTLED SLUDGE VOLUME		RAW			HAULED		WITHDRAWN GALLONS	NH3-N (mg/L)	E.Coli	Phosphorus mg/L	Total Nitrogen		
																									30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS							
1	4.27			7.1	7.4								202		8	128		4	3.561	12860	65900	4.3	4030	3130	360									0	0.55		0.466	10.7
2	5.188			7.0	7.2								342		17	262		10	3.548	11940	65900	4.4	3810	3010	370								56700	1.2	3			
3	5.803			7.2	7.1								216		15	175		10	3.725	11450	65900	4	3710	3090	370								63000	1.5	147			
4	5.179																		3.701	12110	65900	3.7	3890	3110	370								63000		2			
5	4.608																		3.634	12210	65900	3.3	3770	3090	350								56700					
6	4.261																		3.547	13210	65900	3.6	3990	3250	370								63000					
7	4.126																		3.527		65900	3.9			380								56700					
8	3.711			7.1	7.2										6	179		2	3.487		65900	4.1			350							0	0.86		0.3	10.6		
9	3.535			7.2	7.3										7	181		3	3.475	12340	65900	3.9	4040	3190	380						3.28	56700	0.58	79				
10	3.718			7.1	7.4										8	137		4	3.698	12670	65900	4.2	3910	3040	380							50400	0.32	22				
11	3.829			7.3															3.617	13160	65900	4.1	3870	3000	370							56700		11				
12	5.016			7.4															3.427	12940	65900	4.4	3720	2860	370							63000						
13	6.83			7.3															3.657	12850	65900	4.3	3950	3160	370							63000						
14	6.374																		3.654		65900	4			350							56700						
15	6.579			7.1	7.4										11	73		3	3.506		65900	4.5			340							18900	1.8		0.486	9.75		
16	5.713			7.0	7.4										11	88		3	3.596	12140	65900	4.4	4160	3240	370						2.54	6300	1.3	105				
17	5.202			7.1	7.4										10	126		4	3.738	12350	65900	4.1	4070	3210	350							75600	0.89	16				
18	5.808																		3.73	11950	65900	4	4190	3250	350							63000		10				
19	8.076																		3.794	12110	65900	3.7	3980	3190	350							63000						
20	9.118																		3.776	12450	65900	3.9	4280	3450	350							63000						
21	7.271																		3.827	11300	65900	4	4040	3230	300							25200						
22	6.46			7.2	7.1										12	67		4	3.651	11900	65900	4.1	4130	3350	320							56700	1.3		0.373	8.65		
23	5.898			7.1	7.2										10	97		4	3.753	12100	65900	3.2	3890	3110	350						2.45	50400	1.4	1				
24	5.754			7.0	7.2										9	77		3	3.725	13730	65900	3.7	4720	3840	360							81900	1.1	2				
25	6.162																		3.716	13450	65900	3.3	4690	3790	350							94500		2				
26	4.177																		3.618	13890	65900	3.4	4570	3610	350							94500						
27	5.055																		3.486	12570	65900	3.9	4190	3890	350							88200						
28	4.449																		3.496	11960	65900	4.1	4220	3970	350							63000						
29	4.881																		3.459		65900	3.8			330							0						
30	4.127																		3.506	12670	65900	4.2	4460	3510	350							94500						
31	3.457																		3.507	12750	65900	3.9	4290	3400	350							94500						
Tot.	164.6																		112.1														2E+06					
Avg.	5.311			7.1	7.3										10	133		5	3.617	12502	65900	3.948	4099	3307	355.2						2.757	56090	1.07	10	0.41	9.9250		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
50579 FLOW
34522 CBOD
43009 TSS

Curtis E. Otto OPERATOR
20265 CERT. NO.

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

502.540.6000
PLANT TELEPHONE



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022420	MSD0202	HITE CREEK	HITE CREEK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	11877A	5500 HITT RD		HITE CREEK	STREAM

<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>
: DISDW: DRY WEATHER DISCHARGE	3227370		03/26/2020	FORD JR	HUBER	REPAIRED - ISSUE RESOLVED	03/26/2020	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	03/27/20 03:15 AM	

Discharge Reporting:

Discharge Amount:	6,075 GAL
Cause:	DEMOLITION WORK ON EXISTING EQUIPMENT/PUMP STATION.
Clean Up:	LIME SPREAD THROUGHOUT AREA.
Control Zone:	PERMANENT OVERFLOW SIGNS.
Impact:	RAW WATER TO DISCHARGED TO CREEK.
Repair:	REPAIRING OF EXISTING EQUIPMENT.
Public Notification:	PERMANENT OVERFLOW SIGNS POSTED ALONG CREEK.

Notifications:

3/27/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
3/27/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022420	MSD0202	HITE CREEK	HITE CREEK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPLSewer Treatment Plant	MSD0202	5500 HITT RD		HITE CREEK	STREAM

<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>
: DISDW: DRY WEATHER DISCHARGE	3227369		03/26/2020	FORD JR	HUBER	REPAIRED - ISSUE RESOLVED	03/27/2020	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATERS	03/27/20 03:15 AM	

Discharge Reporting:

Discharge Amount:	92,040 GAL
Cause:	DEMOLITION OF EXISTING EQUIPMENT/PUMP STATION.
Clean Up:	LIME SPREAD THROUGHOUT AREA. STORM WATER STATION VECTORING.
Control Zone:	PERMANENT OVERFLOW SIGNS.
Impact:	RAW WATER DISCHARGE.
Repair:	REPAIRING OF EXISTING EQUIPMENT.
Public Notification:	PERMANENT OVERFLOW WARNING SIGNS POSTED ALONG CREEK.

Notifications:

3/27/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
3/27/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Total Facilities Printed: 2

Total Work Orders Printed: 2