



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

May 14, 2015

Cheryl Edward
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**RE: Hite Creek WQTC, KPDES No: KY0022420
Discharge Monitoring Report for April 2015.**

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 April 2015.

Also attached are discharge reports.

There were no exceedances or bypasses 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. 04/15.

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit

Permit #:

KY0022420

Major:

Yes

Permittee:

HITE CREEK WQTC MSD

Permittee Address:

5512 HITT LN
LOUISVILLE, KY 40201

Facility:

HITE CREEK WQTC MSD

Facility Location:

5512 HITT LN
LOUISVILLE, KY 40201

Permitted Feature:

001
External Outfall

Discharge:

001-2
MUNICIPAL WASTEWATER

Report Dates & Status

Monitoring Period:

From 04/01/15 to 04/30/15

DMR Due Date:

05/28/15

Status:

NetDMR Validated

Considerations for Form Completion

USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

Principal Executive Officer

First Name:

Greg

Last Name:

Heitzman

Title:

Exec. Dir.

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			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	8					19 - mg/L	0	01/01 - Daily	GR - GRAB
					Permit Req.						>=	7 INST MIN					19 - mg/L			
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	7			=	8	12 - SU	0	01/01 - Daily	GR - GRAB
					Permit Req.						>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU			
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	261	=	416	26 - lb/d			=	5	=	7	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			
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	7800	=	8899	26 - lb/d			=	161	=	197	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			
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	32	=	45	26 - lb/d			=	0.6	=	0.9	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	250 MO AVG	<=	375 MX WK AV	26 - lb/d			<=	5 MO AVG	<=	7.5 MX WK AV	19 - mg/L			
					Value NODI															
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	639	=	695	26 - lb/d			=	14	=	18	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			
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample								=	0.3	=	0.4	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.								<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L			
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	5.914	=	12.699	03 - MGD								0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI															
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample								=	4	=	8	13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB
					Permit Req.								<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL			
					Value NODI															
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	184	=	245	26 - lb/d			=	4	=	4	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			
					Value NODI															
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	5438	=	6850	26 - lb/d			=	118	=	177	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			
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	97					23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.						>=	85 MO AV MN					23 - %			
					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 - %			
					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
20154_HiteCreek_OverflowReport.pdf	pdf	79899
HC042015_MOR.pdf	pdf	62023
hc042015_cover.pdf	pdf	47246

Report Last Saved By
HITE CREEK WQTC MSD

User:	kevin.ries@louisvillemsd.org	Date/Time:	2015-05-26 10:22 (Time Zone: -04:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemsd.org		

DMR Copy of Record

Permit

Permit #:

KY0022420

Major:

Yes

Permittee:

HITE CREEK WQTC MSD

Permittee Address:

5512 HITT LN
LOUISVILLE, KY 40201

Facility:

HITE CREEK WQTC MSD

Facility Location:

5512 HITT LN
LOUISVILLE, KY 40201

Permitted Feature:

001
External Outfall

Discharge:

001-R
REASONABLE POTENTIAL

Report Dates & Status

Monitoring Period:

From 04/01/15 to 04/30/15

DMR Due Date:

05/28/15

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Greg

Last Name:

Heitzman

Title:

Exec. Dir.

Telephone:

502-540-6000

No Data Indicator (NODI)

Form 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
hc042015_cover.pdf	pdf	47246

Report Last Saved By

HITE CREEK WQTC MSD

User:

kevin.ries@louisvillemسد.org

Name:

Kevin Ries

E-Mail:

kevin.ries@louisvillemسد.org

Date/Time:

2015-05-26 10:19 (Time Zone: -04:00)

NAME OF TREATMENT PLANT HITE CREEK WTP COUNTY JEFFERSON MONTH OF: April 2015
 KPDES PERMIT NUMBER KY0022420 PLANT CAPACITY 4.4 MGD RECEIVING STREAM HITE 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													
		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 X 1000	MLVSS X 1000	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN. SETTLED SLUDGE VOLUME	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									
1	3.981			7.9	7.6	15.0		0.0		9.0		185		8	117		5	3.23	7.53	78.8	6	2.95	2.4	250						91.8	0.6									
2	4.707			8.2	7.6	18.0		0.0		9.2								2.81	5.92	105.1	6.1	3.03	2.42	250					1.46	80	91.8		4							
3	12.7	36	36	7.8	7.8	20.0		0.0		9.8								3.45	12.85	49.3		3.06	2.38	200						44.1		4								
4	10.63			7.1	6.9	20.0		0.0		7.9		172		7	69		3	2.61	7.53	78.8	3.3	2.98	2	200						102.6	0.9		0.213							
5	7.239			7.3	7.4	10.0		0.0		8.2		88		6	56		5	2.88	9.36	65.7	5.8	3.02	2.3	200						0	0.57									
6	6.384			7.6	7.9	10.0		0.0		10.3								3.08	7.83	72.28	8.5	2.81	2.2	220						86.1		3								
7	9.582	36	36	7.7	7.6	5.0		0.0		9.7								2.92	6.55	88.7	7.8	2.77	2.166	200						86.7										
8	9.295			7.4	7.7	5.0		0.0		10.5		88		5	58		3	3.23	10.94	52.6	9.5	2.75	2.08	200						80.1	0.19		0.234							
9	7.46			7.6	7.7	6.0		0.0		10.7		78		5	74		3	2.89	9.06	62.5	8.7	2.68	2.03	200					1.69	79	25.2	0.81	2							
10	7.079	36	36	7.3	7.7	5.0		0.0		10.3								3.18	6.33	88.7	8.9	2.6	1.97	200						92.1		4								
11	5.917			7.3	7.6	5.0		0.0		10.5								2.98	8.26	65.7	8.7	2.72	1.99	200						86.7										
12	5.454			7.4	7.7	20.0		0.0		10.2		240		4	128		3	2.82	8.65	65.7	8.9	2.74	2.01	200						0	0.95									
13	5.021			7.7	7.7	20.0		0.0		10.2								3.16	6.07	95.3	7.5	2.73	2.08	240						61.5		2								
14	5.797	36	36	7.5	7.7	15.0		0.0		10.5								3.03	6.33	88.7	7.9	2.76	2.13	240						49.2										
15	5.394			7.4	7.7	10.0		0.0		9.2		186		5	111		4	2.9	5.92	98.6	6.7	2.8	2.21	250						73.8	0.24		0.39		193					
16	4.831			7.5	7.8	15.0		0.0		9.4		184		3	159		4	3.38	5.43	98.6	7.3	2.7	2.42	230						73.8	0.2	2				0.004	0.005			
17	4.825	36	36	7.5	7.6	20.0		0.0		9.2								3.4	5.53	92	6.4	2.5	1.97	200					1.52	77	86.1		2							
18	4.312			7.7	7.6	20.0		0.0		9.0								3.46	5.91	98.6	5.9	2.82	2.17	230						105.3										
19	5.559			7.4	7.7	5.0		0.0		9.0		122		5	108		4	3.52	6.55	92	6.3	2.92	2.33	260						0	0.35									
20	6.484			7.4	7.5	8.0		0.0		9.6								3.55	8.62	78.8	7.3	3.35	2.64	250						79.8		4								
21	5.508	36	36	7.4	7.6	15.0		0.0		10.0								3.31	8.47	78.8	8.1	3.24	2.52	250						74.1										
22	4.754			7.6	7.6	15.0		0.0		9.7		178		3	135		3	3.42	7.26	82.1	7.8	2.85	2.2	250						67.5	0.19		0.222							
23	4.495			7.5	7.6	15.0		0.0		9.7		164		3	162		3	3.38	6.26	98.6	5.1	2.9	2.28	280					1.46	76	55.8	0.11	2							
24	4.166	36	36	7.5	7.6	15.0		0.0		9.5								3.45	7	78.8	4	2.67	2.14	250						86.1		2								
25	4.307			7.5	7.6	15.0		0.0		9.5								3.3	7.05	78.8	4	2.65	1.8	250						110.4										
26	4.676			7.5	7.5	20.0		0.0		9.2		248		5	234		4	3.17	3.61	105.1	4	2.17	1.79	200						0	2.4									
27	4.097			7.5	7.6	25.0		0.0		9.0								3.09	6.3	98.6	5.2	3.04	2.48	300						86.1		150								
28	4.708	36	36	7.7	7.6	25.0		0.0		9.2								1.76	8.52	72.28	3.2	2.81	2.26	280						79.8										
29	4.144			7.6	7.5	25.0		0.0		7.6								1.79	8.66	65.7	3.8	2.64	2.16	250						67.5										
30	3.921			7.8	7.6	25.0		0.0		9.3								1.57	8.48	72.28	4.5	2.89	2.33	280						61.2										
31																																								
Tot.	177.4	288	288															90.72													2005									
Avg.	5.914	36	36	7.5	7.6	14.9				9.5		161		5	118		4	3.024	7.426	81.58	6.455	2.818	2.195	233.7					1.533	78	66.84	0.63	4	0.26		193.00	0.00	0.01		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

56324 34115 37834
FLOW CBOD TSS

Earl Dunn 7626
OPERATOR CERT. NO.

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

502-241-9310
PLANT TELEPHONE



Initiated Apr 01, 2015 12:00 AM thru Apr 30, 2015 11:59 PM

Report Selections: Period: 04/01/2015 00:00 thru 04/30/2015 23:59, treatment Plant: MSD0202 HITE CREEK, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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
SMH Sewer Manhole	102447A	5500 HITT RD		HITE CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2337588		4/3/15 7:30 am	MARKS JR	OPS BSHIFT EAST	BEYOND APPROVED DESIGN STORM	04/03/2015	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	04/04/15 06:15 AM	

Discharge Reporting:

Discharge Amount:	9,999 GAL
Cause:	rain event caused a lack of system capacity
Clean Up:	msd cleaned & sanitized the area
Control Zone:	permanent signs posted
Impact:	manhole is under water
Repair:	a solution for this location can be found in the ioap
Public Notification:	MSD used permanent signs to warn public

Notifications:

4/11/15 1:02 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org'
-----------------	--------	---



Report Selections: Period: 04/01/2015 00:00 thru 04/30/2015 23:59, treatment Plant: MSD0202 HITE CREEK, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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
SMH Sewer Manhole	108674	10723 COPPER RIDGE DR		HITE CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2340198		4/7/15 12:50 pm	SINGLETON	OPS BSHIFT EAST	BEYOND APPROVED DESIGN STORM	04/07/2015	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	04/07/15 02:30 PM	

Discharge Reporting:

Discharge Amount:	35,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PERMANENT SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
Public Notification:	PERMANENT SIGNS POSTED AT THIS LOCATION

Notifications:

4/11/15 1:49 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemisd.org'
3/18/15 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemisd.org, Sayre.Dennis@epamail.epa.gov'



Initiated Apr 01, 2015 12:00 AM thru Apr 30, 2015 11:59 PM

Report Selections: Period: 04/01/2015 00:00 thru 04/30/2015 23:59, treatment Plant: MSD0202 HITE CREEK, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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
SMH Sewer Manhole	11877	5500 HITT RD		HITE CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2337597		4/3/15 7:30 am	MARKS JR	OPS BSHIFT EAST	BEYOND APPROVED DESIGN STORM	04/03/2015	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	04/04/15 06:15 AM	

Discharge Reporting:

Discharge Amount:	9,999 GAL
Cause:	rain event caused a lack of system capacity
Clean Up:	no debris
Control Zone:	permanent signs posted
Impact:	man hole is under water
Repair:	a solution for this location can be found in the ioap
Public Notification:	MSD used permanent signs to warn public

Notifications:

4/11/15 1:02 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org'
-----------------	--------	---



Initiated Apr 01, 2015 12:00 AM thru Apr 30, 2015 11:59 PM

Report Selections: Period: 04/01/2015 00:00 thru 04/30/2015 23:59, treatment Plant: MSD0202 HITE CREEK, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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
SMH Sewer Manhole	11877A	5500 HITT RD		HITE CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT	2337607		4/3/15 7:30	MARKS JR	OPS BSHIFT	BEYOND	11/17/2013	LACK OF	UNAUTHORIZED	04/04/15 06:15	
DISCHARGE			am		EAST	APPROVED		SYSTEM	DISCHAGE - WATERS	AM	
						DESIGN STORM		CAPACITY			

Discharge Reporting:

Discharge Amount:	9,999 GAL
Cause:	Rain event caused a lack of system capacity
Clean Up:	no debris
Control Zone:	permanent signs posted to warn public
Impact:	manhole is underwater
Repair:	a solution for this location can be found in the ioap
Public Notification:	MSD used signs to warn public

Notifications:

4/11/15 1:02 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org'
-----------------	--------	---

Total Facilities Printed: 4

Total Work Orders Printed: 4