



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

October 7, 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 September 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 September 2015.

Also attached are discharge reports, bypass report and letter and the 3rd quarter biomonitoring DMR.

There were no exceedances 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 black ink that reads "Duane V. Wright". The signature is written in a cursive style with a long horizontal flourish at the end.

Duane V. Wright
Process Supervisor, East Region

DVW/ Hite Creek. 06/15.

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:	5512 HITT LN LOUISVILLE, KY 40201
Permitted Feature:	001 External Outfall	Discharge:	001-2 MUNICIPAL WASTEWATER
Facility:		Facility Location:	HITE CREEK WQTC MSD 5512 HITT LN LOUISVILLE, KY 40201

Report Dates & Status			
Monitoring Period:	From 09/01/15 to 09/30/15	DMR Due Date:	10/28/15
Status:	NetDMR Validated		

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

Principal Executive Officer			
First Name:	Tony	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
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample	=	7				=	7				19 - mg/L	01/01 - Daily	GR - GRAB
					Permit Req.	>=	7 INST MIN								19 - mg/L	03/07 - Three Per Week	GR - GRAB	
					Value NODI													
00400	pH	1 - Effluent Gross	0	--	Sample	=	7				=	8			12 - SU	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM								12 - SU	03/07 - Three Per Week	GR - GRAB	
					Value NODI													
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	117	=	134	26 - lb/d	=	4	=	4	19 - mg/L	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	10219	=	15814	26 - lb/d	=	315	=	465	19 - mg/L	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	9	=	22	26 - lb/d	=	0.3	=	0.7	19 - mg/L	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	809	=	834	26 - lb/d	=	25	=	27	19 - mg/L	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample	=		=			=	0.3	=	0.5	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Permit Req.										19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Value NODI													
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.859	=	4.848	03 - MGD								
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								
					Value NODI													
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample	=		=			=	2	=	2	13 - #/100mL	03/07 - Three Per Week	GR - GRAB	
					Permit Req.										13 - #/100mL	03/07 - Three Per Week	GR - GRAB	
					Value NODI													
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	78	=	99	26 - lb/d	=	2	=	3	19 - mg/L	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample	=	6015	=	6704	26 - lb/d	=	187	=	214	19 - mg/L	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample	=	99								23 - %	01/30 - Monthly	CA - CALCTD	
					Permit Req.	>=	85 MO AV MN								23 - %	01/30 - Monthly	CA - CALCTD	
					Value NODI													
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample	=	99								23 - %	01/30 - Monthly	CA - CALCTD	
					Permit Req.	>=	85 MO MIN								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
2015_9_HCQWTC_OverflowReport.pdf	pdf	74110
HC092015_COVER.pdf	pdf	48646
HC_UVBYPASS09262015.pdf	pdf	69471
HC092015_MOR.pdf	pdf	62241

Report Last Saved By

HITE CREEK WQTC MSD

User: kevin.ries@louisvillemsd.org	Date/Time: 2015-10-19 10:20 (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:	5512 HITT LN LOUISVILLE, KY 40201	Facility Location:	5512 HITT LN LOUISVILLE, KY 40201
Permitted Feature:	001 External Outfall	Discharge:	001-R REASONABLE POTENTIAL		

Report Dates & Status

Monitoring Period:	From 09/01/15 to 09/30/15	DMR Due Date:	10/28/15	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Tony	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
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample						<	0.005	<	0.005	19 - mg/L	XX/XX - Frequency as Reported 01/30 - Monthly	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L 0
					Value NODI														
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	155	=	155	19 - mg/L	XX/XX - Frequency as Reported 01/30 - Monthly	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L 0
					Value NODI														
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--	Sample						<	0.004	<	0.004	19 - mg/L	XX/XX - Frequency as Reported 01/30 - Monthly	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L 0
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.000201	<	0.000201	19 - mg/L	XX/XX - Frequency as Reported 01/30 - Monthly	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L 0
					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
HC092015_COVER.pdf	pdf	48646
HC092015_MOR.pdf	pdf	62241

Report Last Saved By

HITE CREEK WQTC MSD

User:	kevin.ries@louisvillemtd.org	Date/Time:	2015-10-19 10:17 (Time Zone: -04:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemtd.org		

DMR Copy of Record

Permit			
Permit #:	KY0022420	Permittee:	HITE CREEK WQTC MSD
Major:	Yes	Permittee Address:	5512 HITT LN LOUISVILLE, KY 40201
Permitted Feature:	001 External Outfall	Discharge:	001-Y METALS/BIOMONITORING/QUARTERLY
Facility:		Facility Location:	HITE CREEK WQTC MSD 5512 HITT LN LOUISVILLE, KY 40201

Report Dates & Status			
Monitoring Period:	From 07/01/15 to 09/30/15	DMR Due Date:	10/28/15
Status:	NetDMR Validated		

Considerations for Form Completion			
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Principal Executive Officer			
First Name:	Tony	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
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.042	<	0.042	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/90 - Quarterly	CP - COMPOS
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.002	<	0.002	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/90 - Quarterly	CP - COMPOS
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/90 - Quarterly	CP - COMPOS
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample								<	1	2G - tox chronic	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.								<=	1 DAILY MX	2G - tox chronic		01/90 - Quarterly	CP - COMPOS
					Value NODI													
71901	Mercury, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.0152	=	0.0152	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.												01/90 - Quarterly	GR - GRAB
					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
HC092015_COVER.pdf	pdf	48646

Report Last Saved By
HITE CREEK WQTC MSD

User:	kevin.ries@louisvillemtd.org	Date/Time:	2015-10-19 10:15 (Time Zone: -04:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemtd.org		



700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

September 28, 2015

Mr. Charlie Roth, District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Bypass Report for the: Hite Creek WQTC- KPDES Permit: KY0022420

Dear Mr. Roth:

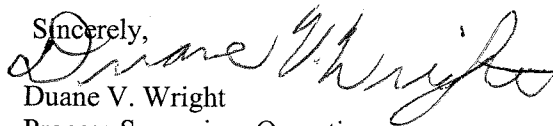
This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on September 27, 2015, referencing Work Order 2434538 as a dry weather discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: At approximately 10:59 pm on September 26, 2015, the breaker for the UV 3000+ system at Hite Creek tripped. The back-up UV 3000+ system started as programmed. However, the influent gate to the UV 3000+ stayed open due to the tripped breaker, which allowed approximately 49,074 gallons of fully treated, but not disinfected, wastewater to reach the waters of the U.S.
- Period of noncompliance: Starting 10:59 PM on September 26, 2015 and stopping 12:45 AM on September 27, 2015.
- Steps taken or planned to reduce, eliminate and prevent recurrence: A MSD contractor performed a permanent repair and installed new wires and a conduit on September 28, 2015.
- Additional comments: On September 17, 2015, a contractor damaged the electric line feeding the UV 3000+ system. The contractor performed a temporary repair of the electric line. We believe the electric line shorted to ground and caused the breaker to trip and enabled the UV influent gate to stay in the open position.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-587-5856, my cell phone at (502)-396-9142 or via email at duane.wright@louisvillemSD.org.

Sincerely,



Duane V. Wright
Process Supervisor-Operations

cc: Courtney Seitz, KDEP



Mr. Charlie Roth, District Supervisor
KY Division of Water
Page 2

Paula Purifoy, MSD
eB File

Report Selections: Period: 09/01/2015 00:00 thru 09/30/2015 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
SMN Sewer Main	45214-AG	3700 CYPRESS SPRINGS PL		HITE CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	2431706		09/18/2015	BRAZEL	HUBER	REPAIRED - ISSUE RESOLVED	09/18/2015	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	09/18/15 07:30 PM	

Discharge Reporting:

Discharge Amount:	10,250 GAL
Cause:	STRUCTURAL FAILURE OF FORCE MAIN
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND ON THE GROUND
Repair:	CONTRACTOR REPAIRED THE FORCE MAIN
Public Notification:	ADVISED CUSTOMER ON SITE

Notifications:

9/14/15 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
9/14/15 1:00 pm	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'

Report Selections: Period: 09/01/2015 00:00 thru 09/30/2015 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
SPL Sewer Treatment Plant	MSD0202	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
: DISDW: DRY WEATHER DISCHARGE	2434538		09/26/2015	MARKS JR	OPS BSHIFT EAST	REPAIRED - ISSUE RESOLVED	09/27/2015	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	09/27/15 12:45 AM	

Discharge Reporting:

Discharge Amount:	49,074 GAL
Cause:	COMMUNICATION FAILURE OF UV SYSTEM
Clean Up:	NO CLEAN UP REQUIRED MOSTLY TREATED FLOW DISCHARGED AT PLANT EFFLUENT
Control Zone:	PERMANENT SIGNS POSTED ALONG IMPACTED STREAM
Impact:	MOSTLY TREATED FLOW DISCHARGED AT PLANT EFFLUENT - NO UV DISINFECTION OCCURRED
Repair:	OPERATOR INSTALLED SLIDE GATE UNTIL ELETRICAL REPAIRS WERE COMPLETED
Public Notification:	PUBLIC NOTIFIED WITH PERMANENT SIGNS POSTED AT TREATMENT PLANT OUTFALL

Notifications:

9/19/15 1:01 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO DISCHARGENOTICE@LOUISVILLEMSD.ORG,SAYRE.DENNIS@EPAMAIL.EPA.GOV,EPPC.ERT@KY.GOV,CHARLIE.ROTH@KY.GOV
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Report Selections: Period: 09/01/2015 00:00 thru 09/30/2015 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
SLS Sewer Lift Station	MSD1018-PS	3700 CYPRESS SPRINGS PL	CYPRESS SPRINGS	HITE CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	2431709		09/18/2015	BRAZEL	HUBER	REPAIRED - ISSUE RESOLVED	09/18/2015	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	09/18/15 11:30 PM	

Discharge Reporting:

Discharge Amount:	700 GAL
Cause:	STRUCTURAL FAILURE - FORCE MAIN BREAK
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND AROUND WET WELL
Repair:	HAULED SEWAGE UNTIL REPAIRS MADE- CONTRACTOR REPAIRED THE FORCE MAIN
Public Notification:	ADVISED ALL POSSIBLE IMPACTED PROPERTIES IN THE SURROUNDING AREA IN PERSON

Notifications:

9/14/15 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
9/14/15 1:00 pm	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'

Total Facilities Printed: 3

Total Work Orders Printed: 3