



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

August 16, 2013

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

**RE: Hite Creek WQTC, KPDES No: KY0022420  
Discharge Monitoring Report for July 2013.**

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 July 2013.

There were no exceedences, bypasses or overflow's to report this month.

On May 15, 2013, the Hite Creek WQTC influent flow meter quit working and MSD installed a new influent flow meter on July 16, 2013. In order to perform the calculations, the plant average influent flow (4.652 MGD) from January, February, March and April 2013 was used as an estimate for this flow for the first fifteen days this month. The effluent flow meter is not accurate for flow monitoring and reporting since it is used for controlling the plant UV systems. However, MSD can supply and the effluent flows upon request.

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

Sincerely,

Kevin Thompson  
Process Supervisor, East Region

KT/ Hite Creek. 07/13.

Enclosures

cc: T. Singleton  
R. Shaw



*Beneficial Use of Louisville's Biosolids*  
[www.louisvillegreen.com](http://www.louisvillegreen.com)

**DMR Copy of Record**

<b>Permit</b>			
<b>Permit #:</b>	<b>KY0022420</b>	<b>Permittee:</b>	HITE CREEK WQTC MSD
<b>Major:</b>	Yes	<b>Permittee Address:</b>	5512 HITT LN LOUISVILLE, KY 40201
<b>Permitted Feature:</b>	001 External Outfall	<b>Discharge:</b>	<b>001-2</b> MUNICIPAL WASTEWATER
<b>Facility:</b>		<b>Facility Location:</b>	HITE CREEK WQTC MSD 5512 HITT LN LOUISVILLE, KY 40201

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 07/01/13 to 07/31/13</b>	<b>DMR Due Date:</b>	<b>08/28/13</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

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

<b>Principal Executive Officer</b>			
<b>First Name:</b>	Greg	<b>Title:</b>	Executive Director
<b>Last Name:</b>	Heitzman	<b>Telephone:</b>	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	=	8				=	8				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	=	6.9				=	7.7			12 - SU	01/01 - Daily	GR - GRAB		
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM			12 - SU	03/07 - Three Per Week	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	97	=	129	26 - lb/d	=	3	=	3	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	=	8838	=	9647	26 - lb/d	=	241	=	300	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	=	12	26 - lb/d	=	0.3	=	0.3	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	=	601	=	655	26 - lb/d	=	16	=	19	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	=		=			=	0.5	=	0.7	19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Permit Req.					<=	1 MO AVG	<=	1.5 MX WK AV	19 - mg/L	01/07 - Weekly	CP - COMPOS			
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.183	=	4.838	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								99/99 - Continuous	CN - CONTIN
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample						=	2	=	2	13 - #/100mL	03/07 - Three Per Week	GR - GRAB		
					Permit Req.						<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL	03/07 - Three Per Week	GR - GRAB		
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	78	=	91	26 - lb/d	=	2	=	2	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, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	4320	=	4908	26 - lb/d	=	116	=	144	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						=	98			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
HiteCreek072013_Coverletter.pdf	pdf	15956
201307HiteCreek_mor.XLS	xls	329216

**Report Last Saved By**

**HITE CREEK WQTC MSD**

User: kevin.thompson@louisvillemsd.org

Date/Time: 2013-08-27 14:13 (Time Zone: -04:00)

Name: Kevin Thompson

E-Mail: kevin.thompson@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 07/01/13 to 07/31/13				DMR Due Date:	08/28/13				Status:	NetDMR Validated								
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	Greg				Title:	Executive Director				Telephone:	502-540-6000								
Last Name:	Heitzman																		
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	03/30 - Three Per Month	CP - COMPOS	
					Permit Req.												01/30 - Monthly	CP - COMPOS	
					Value NODI														
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample					=	210			=	218	19 - mg/L	02/30 - Twice Per Month	CP - COMPOS	
					Permit Req.												01/30 - Monthly	CP - COMPOS	
					Value NODI														
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--	Sample					<	0.01			<	0.01	19 - mg/L	03/30 - Three Per Month	CP - COMPOS	
					Permit Req.												01/30 - Monthly	CP - COMPOS	
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample					=	0.000419			=	0.000419	19 - mg/L	01/30 - Monthly	CP - COMPOS	
					Permit Req.												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																			
No attachments.																			
Report Last Saved By																			
HITE CREEK WQTC MSD																			
User:	kevin.thompson@louisvillemsd.org				Date/Time:	2013-08-27 14:14 (Time Zone: -04:00)													
Name:	Kevin Thompson																		
E-Mail:	kevin.thompson@louisvillemsd.org																		

NAME OF TREATMENT PLANT HITE CREEK WTP COUNTY JEFFERSON MONTH OF: July 2013  
 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	GAL/DAY X 1000	MLSS X 1000	MLVSS X 1000	WAST ED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	SETTLED SLUDGE VOLUME		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	
																									30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS									% VOLATILE SOLIDS
1	4.652	36	36	7.0	7.6	20.0	0.0		8.6		172		4	82		2	2.8	8.57	52.6	6.3	3.54	2.63	240							63	0.28	3	0.294						
2	4.652			7.2	7.5	15.0	0.0		8.8		244		2	127		2	2.81	9.22	49.3	6.3	3.63	2.69	220							63	0.17	2							
3	4.652			7.1	7.6	15.0	0.0		8.4								2.82	7.44	65.7	6.9	3.78	2.82	250							75.6									
4	4.652			7.1	7.4	17.0	0.0		8.5		250		4	118		2	2.81	9.88	46	6.2	3.66	2.82	240							0	0.06	2							
5	4.652	36	36	7.1	7.6	15.0	0.0		9.0								2.91	6.76	62.5	8.2	3.42	2.62	240							88.2									
6	4.652			6.8	7.6	15.0	0.0		9.1								2.99	10.3	39.4	6.5	3.4		240							63									
7	4.652			6.9	7.4	10.0	0.0		8.6								2.55	10.39	39.4	6.6	3.35	2.57	210							0									
8	4.652			6.9	7.4	15.0	0.0		8.3		188		3	83		3	2.78	9.46	46	5.8	3.46	2.6	250							50.4	0.39	2	0.363	0.00042	218	0.01			
9	4.652	36	36	6.8	7.2	18.0	0.0		8.0		278		2	134		2	2.73	10.98	39.4	5.9	3.45	2.65	240							74	25.2	0.34	2						0.005
10	4.652			6.8	7.2	15.0	0.0		8.0		196		3	80		2	3.08	9.72	42.7	5.9	3.37	2.61	240							31.5	0.2	2							
11	4.652			7.0	7.0	15.0	0.0		8.2								2.43	10	46	5.4	3.56	2.73	250							31.5									
12	4.652	36	36	6.7	7.2	15.0	0.0		8.1								2.84	7.7	52.6	6.3	3.39	2.61	240							63									
13	4.652			6.6	7.2	18.0	0.0		8.0								2.5	6.28	72.2	6	3.65	2.53	210							63									
14	4.652			6.7	7.2	30.0	0.0		8.2								2.65	4.38	82.1	6.2	3.335	2.69	250							0									
15	4.652	36	36	7.2	7.3	38.0	0.0		7.6		254		2	139		2	2.79	7.74	65.7	6.3	4.06	3.11	240							63	0.34	2	0.666						
16	4.652			7.2	7.5	13.0	0.0		7.8		260		2	161		2	2.91	8.7	52.6	5.6	3.66	2.68	240							25.2	0.22	2						0.01	0.005
17	3.028			7.5	7.7	20.0	0.0		8.3		385		2	132		2	2.74	8.36	59.2	6.1	3.88	3.09	250							31.5	0.22	2						0.01	0.005
18	3.64			7.5	7.3	20.0	0.0		8.0								2.79	6.54	68.99	5.4	3.54	2.7	240							31.5									
19	3.618	36	36	6.9	7.3	20.0	0.0		7.9								2.83	7.5	59.2	4.7	3.53	2.76	240							63								201	
20	3.375			7.0	7.3	30.0	0.0		7.8								2.8	7.76	59.2	4.9	3.66	2.81	250							63									
21	3.459			7.3	7.5	25.0	0.0		7.5								3.02	7.72	59.2	4.2	3.75	2.87	240							0									
22	4.838			7.0	7.5	25.0	0.0		8.1		270		3	97		2	2.74	7.32	59.2	5.6	3.56	2.68	230							63	0.28	2	0.527						
23	4.601	36	36	7.0	7.5	20.0	0.0		7.6		236		2	126		2	2.84	10.32	46	5.6	3.68	2.78	210							31.5	0.22	2							
24	4.228			6.9	7.7	15.0	0.0		7.8		160		2	118		2	2.84	8.68	55.9	5.4	3.87	2.97	200							12.6	0.28	2							
25	3.764			7.0	7.5	18.0	0.0		8.0								2.84	6.73	62.5	5.8	3.47	2.57	180							31.5									
26	3.655	36	36	6.9	6.9	17.0	0.0		8.4								2.76	6.8	59.2	5.6	3.37	2.46	170							74.1									
27	3.233			6.8	7.4	12.0	0.0		7.7								2.69	5.78	78.8	3.9	3.72	2.68	170							63									
28	3.363			7.1	7.3	14.0	0.0		7.9								2.58	6.92	62.5	3.2	3.39	2.44	150							0									
29	3.516	36	36	7.4	7.4	25.0	0.0		9.0								2.7	5.58	72.28	5.9	3.35	2.43	150							37.8									
30	3.546			7.6	7.4	15.0	0.0		8.4								2.74	8.92	49.3	4.4	3.64	2.7	180							31.5									
31	3.603			6.8	7.4	30.0	0.0		8.0								2.84	8.68	52.6	4.9	3.86	2.79	200							25.2									
Tot.	129.9	324	324														2.84													1265									
Avg.	4.19	36	36	7.0	7.4	19.0			8.2		241		3	116		2	2.779	8.101	56.72	5.677	3.58	2.703	221.3							1.375	76.5	40.8	0.25	2	0.46	0.00042	209.50	0.01	0.005

RESIDENTIAL COMMERCIAL INDUSTRIAL \_\_\_\_\_  
 INDUSTRIAL WASTE POPULATION EQUIVALENT  
 39908 FLOW      23932 CBOD      40120 TSS  
 Earl Dunn OPERATOR      7626 CERT. NO.  
 TOTAL NUMBER OF SEWER CONNECTIONS 0  
 SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION  
 502-241-9310 PLANT TELEPHONE