



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)

September 19, 2011

Ms. Cheryl Edwards  
Kentucky Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601

RE: Cedar Creek WQTC, KPDES No: KY0098540  
Discharge Monitoring Report-August 2011

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Cedar Creek WQTC, KPDES No.: KY0098540 for the month of August 2011.

Also attached are a bypass and overflow report.

There were no exceedences.

If you have any questions concerning the attached DMR's, please contact me at (502) 239-7574.

Sincerely,

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

Duane V. Wright  
Process Supervisor Central Region

DVW/Cedar Creek 8.11.doc

Enclosures

cc: C. Roth (DOW Louisville)  
T. Singleton  
R. Shaw



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

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME CEDAR CREEK WQTC MSD  
 ADDRESS C/O CEDAR CREEK WQTC  
 8405 CEDAR CREEK RD  
 LOUISVILLE KY 40211  
 FACILITY CEDAR CREEK WQTC MSD

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)  
 DISCHARGE MONITORING REPORT (DMR)

KY0098540  
 PERMIT NUMBER

0012  
 DISCHARGE NUMBER

MAJOR (SUBR LV)  
 F - FINAL JEFFE  
 NEW EXPANSION  
 EFFLUENT  
 [ ] No Discharge

LOCATION LOUISVILLE KY 40291  
 ATTN: DENNIS THOMMASSON SR. METRO OPS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
11	08	01		11	08	31

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	7.0	*****	*****	(19) MG/L	0	1/1	GR
	PERMIT MEASUREMENT	*****	*****	***	7.0 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB
PH	SAMPLE MEASUREMENT	*****	*****	***	7.0	*****	8.5	(12) SU	0	1/1	GR
	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	3699	7663	(26) LBS/DY	*****	204	438	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	40	53	(26) LBS/DY	*****	2	2	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	1876 MO AVG	2815 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	407	441	(26) LBS/DY	*****	22	27	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	7	15	(26) LBS/DY	*****	0.4	0.9	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	250 MO AVG	375 MX WK AV	(26) LBS/DY	*****	4 MO AVG	6 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
PHOSPHORUS, TOTAL (AS P) 00665 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2	2	(26) LBS/DY	*****	0.1	0.1	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	63 MO AVG	94 MX WK AV	(26) LBS/DY	*****	1.0 MO AVG	1.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.					TELEPHONE		DATE			
H J SCHARDEIN EXECUTIVE DIRECTOR						502 540-6000		11 0 9 19			
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER				

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME CEDAR CREEK WQTC MSD  
 ADDRESS C/O CEDAR CREEK WQTC  
 8405 CEDAR CREEK RD  
 LOUISVILLE KY 40211  
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KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)  
 DISCHARGE MONITORING REPORT (DMR)

KY0098540  
 PERMIT NUMBER

0012  
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MAJOR (SUBR LV)  
 F - FINAL JEFFE  
 NEW EXPANSION  
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 ATTN: DENNIS THOMMASSON SR. METRO OPS

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YEAR	MO	DAY	TO	YEAR	MO	DAY
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NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.21	3.87	(03) MGD	*****	*****	*****	***	0	CN	CN
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT DAILY MX	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	4	4	(13) 100ML	0	3/7	GRAB
	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	2062	3211	(26) LBS/DY	*****	113	184	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	38	46	(26) LBS/DY	*****	2	2	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	625 MO AVG	938 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARB 5-DAY, 20 DEG C, PERCENT REMVL 80091 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	98	*****	*****	(23) CENT	0	1/31	CA
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	99	*****	*****	(23) CENT	0	1/31	CA
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT MEASUREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER H J SCHARDEIN EXECUTIVE DIRECTOR	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.					TELEPHONE		DATE			
TYPED OR PRINTED						502 540-6000		11 09 19			
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER	YEAR	MO	DAY	

NAME OF TREATMENT PLANT CEDAR CREEK WTP  
 KPDES PERMIT NUMBER KY0098540

COUNTY JEFFERSON  
 PLANT CAPACITY 7.5 MGD

MONTH OF: August 2011  
 RECEIVING STREAM CEDAR 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	RETURN	WASTED	GAL/DAY	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	30 MIN.	60 MIN.	GALLONS x 1000	RAW		HAULED		NH3-N (mg/L)	FECAL COLIFORMS (COLONIES/100ML)	Total Phosphorus				
				% DRY SOLIDS																								% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS								
1	2.36			7.1				8.0			122		2	103		2	1955	4660	59000	3.4	2550	2080	310	290								0.06	4	0.1				
2	2.30			7.1	12.0			8.0			235		2	89		2	2064	4810	65000	2.8	2590	2140	300	280								0.73	4	0.1				
3	2.25			7.2	10.0			8.0			245		2	103		2	2072	4010	62000	2.7	2570	1910	300	280								0.62	4	0.141				
4	2.09			7.1	16.0			8.0									1985	4840	57000	2.8	2460	1990	290	280														
5	2.12			7.2				7.0									2007	3740	46000	2.8	2440	2110	300	270														
6	2.19			7.0				7.0									1987	4320	59000	2.7	2450	2000	310	280														
7	3.87			7.2				8.0									1791	7180	47000	2.2	2620	2360	320	280														
8	3.07			7.3	20.0			8.0			31		2	47		2	1975	5080	62000	2.9	2980	2430	330	290										0.06	4	0.101		
9	2.68			8.0	7.0			8.0			114		3	90		2	2047	5120	65000	3.5	2840	2330	360	270										0.06	4	0.108		
10	2.44			7.4	14.0			8.0			92		2	61		2	2025	4860	68000	3.4	2820	2290	330	300										0.06	4	0.1		
11	2.26			8.0	5.0			7.0									1999	4350	65000	4.1	2810	2280	360	330														
12	2.10			7.4				8.0									2011	4820	68000	4.1	2730	2170	330	300														
13	2.43			8.5				8.0									1927	4630	68000	4.3	2840	2290	320	280														
14	2.55			7.9				8.0									1849	4080	58000	4.5	2950	2450	370	300														
15	2.21			7.6				8.0			295		2	138		2	1970	4240	66000	4.7	2870	2370	350	300											0.06	4	0.1	
16	2.14			7.4	10.0			8.0			585		2	225		2	1977	4490	70000	3.6	2790	2260	300	300											0.06	4	0.1	
17	1.97			7.4	42.0			8.0			435		2	188		2	2010	4360	62000	3.4	2710	2180	310	310										0.67	4	0.1		
18	2.04			7.3	16.0			8.0									1915	4610	68000	3.3	2760	2260	310	310														
19	2.04			7.2				8.0									1985	4520	73000	3.1	2700	2190	300	300														
20	2.10			7.3				8.0									2002		65000	2.9			300	300														
21	2.20			7.2				8.0									1841		50000	2.6			300	300														
22	1.97			7.5	13.0			8.0			56		2	92		2	1846	4130	58000	2.4	3280	2620	370	310											0.06	4	0.106	
23	1.91			8.0	7.0			8.0			94		2	119		2	2045	3990	50000	3.0	2710	2250	330	260										1.40	4	0.1		
24	1.97			7.5	4.0			8.0			138		2	96		2	1980	3740	53000	3.7	2630	2070	320	270											1.30	4	0.1	
25	1.96			7.3	8.0			8.0									2013	3860	54000	3.5	2680	2090	310	290														
26	1.92			7.8				9.0									1892	4570	58000	2.5	2830	2230	310	260														
27	2.04			7.5				7.0									1809	6150	53000	2.5	2440	2000	300	250														
28	2.12			7.5				8.0									1771	3890	47000	2.8	2710	2180	280	240														
29	1.82			7.3				7.0									1770	4580	56000	2.6	2760	2200	290	250														
30	1.62			7.5				8.0									1760	4290	61000	4.1	2660	2170	280	250														
31	1.69			7.2				8.0									1690	3850	55000	4.6	2530	1870	280	250														
Tot.	68.40																59970																			0.43	4	0.105
Avg.	2.21			7.4	13.1			7.9			204		2	113		2	1934.516	4544	60258	3.274	2721	2199	315.2	283.2														

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

21015 FLOW      12187 CBOD      17833 TSS

Joseph Shaun Smith  
 OPERATOR

20987  
 CERT. NO.

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

502-239-7695  
 PLANT TELEPHONE

August 11, 2011

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

Re: Bypass Report for the: Cedar Creek WQTC- KPDES Permit: KY0098540

Dear Mr. Roth:

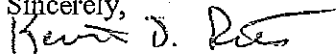
This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on August 11, 2011, referencing Work Order 1316305 as a dry weather discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: On August 11, 2011, Cedar Creek WQTC experienced a plant bypass to waters of the U.S. Approximately 4,209 gallons of wastewater bypassed our disinfection treatment process. The bypassed volume received full treatment except disinfection. Investigation found the UV system shut down due to low water level in the UV channel.
- Period of noncompliance: Starting 03:50 AM on August 11, 2011 and stopping 03:56 AM on August 11, 2011.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD is considering the feasibility of an upgrade to the UV system to install weir gates to maintain a minimum water level in the UV channel.
- Additional comments: No additional comments.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-231-982, my cell phone at (502)-396-7543 or via email at [ries@msdlouky.org](mailto:ries@msdlouky.org).

Sincerely,



Kevin D. Ries  
Process Supervisor-Operations

cc: Gary Levy, KDEP  
Paula Purifoy, MSD  
eB File





Initiated Aug 01, 2011 12:00 AM thru Aug 31, 2011 11:59 PM

Report Selections: Excluding PPI, CSO, Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0098540	Facility ID MSD0289	Water Quality Treatment Center CEDAR CREEK	Receiving Stream of Treatment Center CEDAR CREEK	Region CENT						
Facility Type SPL Sewer Treatment Plant	Facility ID MSD0289	Facility Address 8605 CEDAR CREEK RD	If Pump Station, Name of Pump Station:	Receiving Stream CEDAR CREEK	Discharge to GROUND					
<u>Activity Code / Description</u> DISDW: DRY WEATHER DISCHARGE	<u>WO #</u> 1316305	<u>Initiated</u> 08/11/11 03:50 AM	<u>Initiated By</u> ELDER	<u>Assigned To</u> SPENCER	<u>Disch Status</u> DOCUMENTED	<u>Event Date</u> 03/09/11	<u>Problem</u> BYPASS AT WQTC	<u>Result</u> UNAUTHORIZED DISCHARGE-WATER S	<u>Completed</u> 08/11/11 03:56 AM	<u>Condition</u>

**Spot Inspections:**

Discharge Amount:	4,209 GAL
Cause:	UV3000 PLUS SHUT DOWN
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGNS POSTED IN AREA
Impact:	NO IMPACT OBSERVED - PIPE DISCHARGING DIRECTLY INTO STREAM
Repair:	MANUALLY STARTED UV 3000 PLUS

**Notifications:**

	DISPUB	PERMANANT SIGNS POSTED IN AREA <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
08/11/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov