



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

March 20, 2011

Ms. Crystal Thompson
Kentucky Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601

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

Dear Ms. Thompson:

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 February 2011.

Also attached are bypass and overflow reports.

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 black ink, appearing to read "Duane V. Wright".

Duane V. Wright
Process Supervisor Central Region

DVW/Cedar Creek 2.11.doc

Enclosures

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



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

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

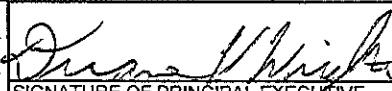
0012
 DISCHARGE NUMBER

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	02	01		11	02	28

NOTE: Read instructions before completing this form

PARAMETER	MEASUREMENT	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	6.94	18.54	(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	*****	*****	***	*****	5	6	(13) 100ML	0	3/7	GR	
	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	2978	3314	(26) LBS/DY	*****	61	79	(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	104	133	(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	*****	*****	***	97	*****	*****	(23) CENT	0	1/28	CA	
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD	
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	97	*****	*****	(23) CENT	0	1/28	CA	
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
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. 1318. (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	03	22
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

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

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	02	01		11	02	28

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)	SAMPLE MEASUREMENT	*****	*****	***	9.0	*****	*****	(19) MG/L	0	1/1	GR	
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	7.0 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB	
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	6.6	*****	7.5	(12) SU	0	1/1	GR	
PH	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB	
00400 1 0 0	SAMPLE MEASUREMENT	4688	6325	(26) LBS/DY	*****	98	150	(19) MG/L	0	03/07	CP	
EFFLUENT GROSS VALUE	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	SAMPLE MEASUREMENT	130	172	(26) LBS/DY	*****	3	3	(19) MG/L	0	03/07	CP	
00530 1 0 0	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	
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	632	771	(26) LBS/DY	*****	12.7 13	14.5 15	(19) MG/L	0	03/07	CP	
NITROGEN, AMMONIA TOTAL (AS N)	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	
00610 G 0 0	SAMPLE MEASUREMENT	20	47	(26) LBS/DY	*****	0.4	0.8	(19) MG/L	0	03/07	CP	
EFFLUENT GROSS VALUE	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	
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	5.6 6	6.7 7	(26) LBS/DY	*****	0.1	0.1	(19) MG/L	0	03/07	CP	
PHOSPHORUS, TOTAL (AS P)	PERMIT MEASUREMENT	125 MO AVG	156 MX WK AV	(26) LBS/DY	*****	2.0 MO AVG	2.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
00665 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
EFFLUENT GROSS VALUE	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.											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	H J SCHARDEIN EXECUTIVE DIRECTOR							TELEPHONE		DATE		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							502	540-6000	11	03	22
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)								AREA CODE	NUMBER	YEAR	MO	DAY

NAME OF TREATMENT PLANT CEDAR CREEK WTP

COUNTY JEFFERSON

MONTH OF: February 2011

KPDES PERMIT NUMBER KY0098540

PLANT CAPACITY 7.5 MGD

RECEIVING STREAM CEDAR CREEK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		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	RETURN	WAST	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)	Total Phosphorus		
																							30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000					
1	6.91			6.7	6.6				10		35		4	23		2	3506	4770	60	3.4	2840	1810	440	340								2.30	15	0.1	
2	9.95			6.7	6.8	5.0			10		36		4	30		2	3515	6840	60	4.1	2660	2240	390	300							0.06	4	0.1		
3	7.11			6.8	6.8	20.0			10		64		2	51		2	2978	6020	60	3.2	2978	2430	390	280							0.06	4	0.1		
4	6.08			7.0	7.1	18.0			10								3381	5690	60	3.9	2680	2390	370	250											
5	6.76			7.1	7.5				11								3390		60	3.9			450	330											
6	6.49			6.9	7.2				11								3476		60	3.3	2950		370	300											
7	6.76			6.8	7.1				10								3494	5910	72	2.8	2990	2460	600	330											
8	7.45			6.7	7.0				11		107		2	64		2	3154	5240	73	3.5	2860	2310	460	310							0.06	10	0.1		
9	6.52			6.7	7.1	10.0			11		69		2	44		2	3456	6580	70	3.7	2650	2080	450	300							0.06	4	0.1		
10	5.78			6.8	7.0	14.0			11		94		2	71		2	3619	6240	73	4.2	2620	2010	410	300							0.06	4	0.1		
11	5.42			7.1	7.2	9.0			10								3546	4020	58	3.8	2640	2340	420	310											
12	5.23			7.0	7.1				10								3558		72	4.6			420	310											
13	5.12			6.8	7.1				10								3437		74	3.8			410	310											
14	4.73			7.0	7.2				10								3512	4120	63	3.3	2780	2220	400	310											
15	4.78			6.9	6.9				10		141		2	81		2	3643	4060	60	3.2	2520	2180	400	300							0.06	4	0.1		
16	5.24			7.1	7.1	6.0			10		192		2	89		2	3615	3000	71	3.4	2830	2270	420	300							0.06	4	<MDL		
17	5.13			6.8	6.8	9.0			10		116		2	66		2	2532	6970	71	3.1	2810	2500	410	320							0.06	4	0.1		
18	4.36			6.9	6.9	9.0			10								1925	5840	64	2.8	2590	2000	390	300											
19	4.50			7.0	6.8	5.0			10								2092	4060	65	2.5	2940	2400	400	310											
20	4.69			6.8	6.7	1.0			9								2092	5720	65	2.4	2600	2190	370	290											
21	4.68			6.8	6.8				9								2116	4530	75	2.7	2930	2390	400	310											
22	5.06			6.7	6.8				10		122		2	76		2	2108	4520	55	3.0	2760	2220	380	300							0.06	4	0.1		
23	4.60			6.8	6.9	5.0			11		132		2	80		2	2126	5750	55	3.2	2600	2100	360	300							0.06	4	0.1		
24	5.97			6.8	7.0	8.0			10		67		6	58		2	2104	5140	50	2.8	2640	2104	370	300							1.70	10	0.194		
25	18.54			6.9	7.0	20.0			11								2146	3250	56	6.0	1730	1470	210	150											
26	10.68			6.9	7.2				11								3743	4460	40	2.7	1930	1550	260	210											
27	9.23			6.8	7.1				11								3886		52		2920		460	330											
28	16.47			6.8	6.9				11								3571	6040	61	5.8	2660	2060	300	270											
29																																			
30																																			
31																																			
Tot.	194.24																85721																		
Avg.	6.94			6.9	7.0	9.9			10.3		98		3	61		2	3061.46	5164	62.68	3.522	2684	2162	396.8	295.4							0.38	5	0.109		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

66068 FLOW
20788 CBOD
26976 TSS

Joseph Shaun Smith
OPERATOR

20987
CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

502-239-7695

PLANT TELEPHONE

February 28, 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 February 25, 2011, referencing Work Order 1211607 as a Rain Event 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 February 25, 2011, due to increased plant flow caused by a storm event, the sand filters overflowed, resulting in a wet weather discharge to the waters of the U.S. of approximately 500 gallons. The sand filter automatic relief gate did not open far enough to prevent bypass. The design flow is 7.5 MGD. Peak flow during this bypass was 21.39 MGD. Total daily plant flow was 18.54 MGD.
- Period of noncompliance: Starting 02:00 AM on February 25, 2011 and stopping 03:30 AM on February 25, 2011.
- Steps taken or planned to reduce, eliminate and prevent recurrence: We will reprogram the sand filter automatic relief gate to process more flow.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7574, my cell phone at (502)-396-9142 or via email at wrightd@msdlouky.org.

Sincerely,


Duane V. Wright
Process Supervisor-Operations

cc: Gary Levy, KDEP
Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD
eB File





Report Selections: Excluding PPI, CSO, 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 SMH Sewer Manhole	Facility ID 88391	Facility Address 9816 WILLIAMSBOROUGH LN	If Pump Station, Name of Pump Station:	Receiving Stream CEDAR CREEK	Discharge to GROUND
---	-----------------------------	--	---	--	-------------------------------

<u>Activity Code / Description</u>	<u>WO #</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	1208160	02/17/11 10:30 AM	GITTINGS	GITTINGS	REPAIRED - ISSUE RESOLVED	02/17/11	OBSTRUCTION-NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE - WATERS	02/17/11 01:52 PM	MAIN

Spot Inspections:

Discharge Amount:	500 GAL
Cause:	OBSTUCTION IN MAIN SEWER
Clean Up:	DAMMED DOWNSTREAM CULVERT AND SET VACTOR TO PREVENT FURTHER IMPACTS, THEN FLUSHED AND WASHED AREA. CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY DISCHARGE SIGNS AROUND THE IMPACTED AREA; PLACED ADDITIONAL SIGNS BEHIND NEIGHBORHOOD AND CHURCH.
Impact:	SEWAGE, PAPER, WATER AND HYGENE PRODUCTS DISCHARGED FROM MANHOLE #88391 INTO THE CREEK CAUSING DISCOLORATION TO THE STREAM
Repair:	WORK ORDERS 1208168 AND 1208171 - ROOT CUT AND SLUSHED THE MAIN SEWER

Notifications:

02/17/11 10:30 AM	DISPUB	ADVISED CUSTOMERS BY DOOR CARD; ADVISED CHURCH OFFICE VERBALLY.
02/17/11 02:56 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/17/11 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, 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>	<u>WO #</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>
DISREV: RAIN EVENT DISCHARGE	1211607	02/25/11 02:00 AM	ELDER	WRIGHT	REPAIRED - ISSUE RESOLVED	02/25/11	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	02/25/11 03:30 AM	

Spot Inspections:

Discharge Amount:	500 GAL
Cause:	HEAVY RAINS IN AREA OVERWHELMED THE SAND FILTER
Clean Up:	NONE, WATER FLOWED OUT INTO ROAD & WAS WASHED AWAY BY RAIN
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

Notifications:

02/25/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/25/11 02:00 AM	DISPUB	temporary signs posted

Total Facilities Printed: 2
Total Work Orders Printed: 4