



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

December 22, 2009

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

RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report-November 2009

Dear Ms. Bentley:

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 November 2009.

Also attached is a bypass letter, overflow report and the fourth quarter biomonitoring DMR.

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 1109.doc

Enclosures

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



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

NAME CEDAR CREEK WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY CEDAR CREEK WQTC MSD
LOCATION LOUISVILLE KY
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0098540
PERMIT NUMBER

001 2
DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL
NEW EXPANSION
EFFLUENT
*** NO DISCHARGE [] ***

JEFFE

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
09	11	01		09	11	30

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	*****	*****		✓ 7.8	*****	*****	(19)	0	03/07	GR
	PERMIT REQUIREMENT	*****	*****	****	7.0	*****	*****			THREE/WEEK	GRAB
PH	SAMPLE MEASUREMENT	*****	*****		✓ 6.8	*****	✓ 7.0	(12)	0	03/07	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	6.0	*****	9.0			THREE/WEEK	GRAB
				****	MINIMUM		MAXIMUM	SU			
SOLIDS, TOTAL SUSPENDED 00530 0 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	4192	4716	(26)	*****	✓ 106	✓ 126	(19)	0	03/07	CP
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MD AVG	REPORT MX WK AV	MG/L		THREE/WEEK	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	117	171	(26)	*****	✓ 3	✓ 4	(19)	0	03/07	CP
	PERMIT REQUIREMENT	1876 MD AVG	2815 MX WK AV	LBS/DY	*****	30 MD AVG	45 MX WK AV	MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 0 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	581	633	(26)	*****	✓ 14.8	✓ 18.5	(19)	0	03/07	CP
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MD AVG	REPORT MX WK AV	MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 2 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	5	13	(26)	*****	✓ 0.1	✓ 0.4	(19)	0	03/07	CP
	PERMIT REQUIREMENT	625 MD AVG	938 MX WK AV	LBS/DY	*****	10 MD AVG	15 MX WK AV	MG/L		THREE/WEEK	COMPOS
PHOSPHORUS, TOTAL (AS P) 00665 1 2 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3	7	(26)	*****	✓ 0.1	✓ 0.1	(19)	0	03/07	CP
	PERMIT REQUIREMENT	125 MD AVG	188 MX WK AV	LBS/DY	*****	2.0 MD AVG	3.0 MX WK AV	MG/L		THREE/WEEK	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR

COMMENTS 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
 LOCATION LOUISVILLE KY
 ATTN: DENNIS THOMASSON, SR METRO OPS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

KY0098540 PERMIT NUMBER
 0012 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL
 NEW EXPANSION
 EFFLUENT
 *** NO DISCHARGE 1 1 ***

JEFFE

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	11	01		07	11	30

NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE 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		4.75	9.13	(03)	*****	*****	*****		0	CN	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	****		CONTIN	CONTIN
COLIFORM, FECAL GENERAL		*****	*****		*****	3	5	(13)	0	03/07	CP
74055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	200	400 #/			THREE/	COMPOS
BOD, CARBONACEOUS 05 DAY, 20C		2658	2916	(26)	*****	169	178	(19)	0	03/07	CP
80082 0 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		THREE/	COMPOS
BOD, CARBONACEOUS 05 DAY, 20C		83	120	(26)	*****	12	12	(19)		03/07	CP
80082 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	625	938		*****	10	15			THREE/	COMPOS
BOD, CARB-5 DAY, 20 DEG C, PERCENT REMVL		*****	*****		97	*****	*****	(23)		01/30	CA
80091 K 0 0 PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	****	85	*****	*****	PER-CENT		ONCE/	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL		*****	*****		97	*****	*****	(23)		01/30	CA
81011 K 0 0 PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	****	85	*****	*****	PER-CENT		ONCE/	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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			AREA CODE	NUMBER	YEAR
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR LV)
F - FINAL JEFFE
METALS/BIO-MONITORING/QUARTERLY EFFLUENT

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
LOCATION LOUISVILLE KY
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0098540 PERMIT NUMBER
001 Y DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
09	10	01		09	12	31

*** NO DISCHARGE [] ***

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			
HARDNESS, TOTAL (AS CaCO3) 00900 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	365	365	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
CADMIUM, DISSOLVED (AS CD) 01025 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.0002	0.0002	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
COPPER, DISSOLVED (AS CU) 01040 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.002	0.002	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
LEAD, DISSOLVED (AS PB) 01049 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	<0.004	<0.004	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
ZINC, DISSOLVED (AS ZN) 01090 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.0233	0.0233	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
ZINC TOTAL RECOVERABLE 01094 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.0773	0.0773	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
CADMIUM TOTAL RECOVERABLE 01113 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.0002	0.0002	(19)	0	0/90	CP
		PERMIT REQUIREMENT	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS

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			AREA CODE	NUMBER	YEAR
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				

COMMENTS 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
LOCATION LOUISVILLE KY
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0098540
PERMIT NUMBER

001 Y
DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE
METALS/BIOMONITORING/QUARTERLY
EFFLUENT
*** NO DISCHARGE [] ***

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
09	10	01	TO	09	12	31

NOTE: Read Instructions before completing this form.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
LEAD TOTAL RECOVERABLE 01114 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	0.010	0.010	(19)	0	0/90	CP
	PERMIT REQUIREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
COPPER TOTAL RECOVERABLE 01117 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	0.006	0.006	(19)	0	0/90	CP
	PERMIT REQUIREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****		21.0	(29)	0	0/90	CP
	PERMIT REQUIREMENT	*****	*****	***	*****		1.0 CHRONO DAILY MX TOXCTY			QTRLY	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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		AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

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

NAME OF TREATMENT PLANT CEDAR CREEK WTP
 KPDES PERMIT NUMBER KY0098540

COUNTY JEFFERSON
 PLANT CAPACITY 7.5 MGD

MONTH OF: November 2009
 RECEIVING STREAM CEDAR 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	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L)	MLVSS (mg/L)	30 MIN.	60 MIN.	RAW		HAULED		NH3-N (mg/L)	FECAL COLIFORM (COLONY/100ML)					
																		GAL/DAY X 1000	MLSS x 1000							GAL/DAY X 1000	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS			% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000		
1	9.13																																			
2	7.17			7.0	6.9	16.0						91	4	44	2																					
3	5.31			6.9	7.0	12.0					8.2		48	2	26	2		5280	390	3.6	3090	2510	300	260							0.06	3				
4	4.82			7.0	7.0	12.0					8.4		92	2	54	2	3456	3790		3.4	1815	1370	200	190							0.06	3				
5	5.26	3	3														3535	6150	500	3.8	3410	2460	360	340								0.06	3			
6	4.95																3463	5150	480	3.4	2745		350	330												
7	4.35																2970	4960	390	3.4	2710	2310	333	310												
8	4.39																2007		398																	
9	3.99			6.9	7.0	8.0						135	2	100	2	2033		343					300	290												
10	3.86			7.0	6.9	10.0					8.0		106	2	61	2	2097	6280	500	3	3545	2520	370	340								0.45	14			
11	3.80			6.9	7.0	8.0					7.8		109	2	73	2	2067	5560	555	3.6	3210	2825	350	310									0.62	3		
12	3.69	3	3								8.0						2074	4990	490	2.8	3065	2610	330	310									0.06	3		
13	3.64																2066	5460	680	3.2	3145	2320	440	350												
14	3.93																2080	5110	400	3.1	3015	2300	370	320												
15	4.03																2147		440																	
16	3.63			6.9	6.9	11.0						153	2	125	2	1590		450					380	320												
17	4.93			7.0	6.8	14.0					7.9		113	2	76	2	1481	5510	500	2.1	3265	2450	380	320									0.06	3		
18	6.99			7.0	6.9	14.0					8.1		61	3	32	2	2016	5260	480	2.8	3015	2360	360	310									0.06	3		
19	5.57	3	3								8.4						2009	4630	450	3.6	2435	1825	290	250									0.06	1		
20	5.51																3529	4680	440	2.6	2790	2135	370	320												
21	5.42																3859	4800	450	2.8	3100	2450	360	300												
22	4.87																		445																	
23	4.32			7.0	7.0	9.0						139	2	85	2								370	310												
24	4.18			6.9	6.9	11.0					8.1		119	2	87	2	2066	5790	500	2	3135	2365	350	310									0.06	3		
25	3.99			6.9	7.0	10.0					8.4		121	8	62	2	2236	5180	480	3.2	2990	2260	340	300									0.06	10		
26	4.01	3	3														2374	4800	480	2.9	3055	2330	350	310									0.06	3		
27	3.99																2340		450	3.6																
28	4.01																2268		450	3.1																
29	4.23																2315		600	2.8																
30	4.53																2110		400	3																
31																	2167	6230	620	2.8	3080	2300	420	350												
Tot.	142.49	12	12														62355																			
Avg.	4.75	3	3	7.0	6.9	11.3					8.2		106	3	69	2	2398	5243	471.6	3.07	2980	2317	348.4	305.3									0.14	3		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

TOTAL NUMBER OF SEWER CONNECTIONS _____
 SEWER CONNECTIONS _____ X _____ = _____ SEWERED POPULATION

0

45235
FLOW

16020
CBOD

20073
TSS

Joseph Shaun Smith
OPERATOR

17987
CERT. NO.

502-239-2695
PLANT TELEPHONE



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

November 2, 2009

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 November 01, 2009, referencing Work Order 975966 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: East channel U.V. gate failed to close while in automatic control. Approximately 207,997 gallons of effluent received full treatment except for U.V. disinfection. Upon discovery, the east channel gate was shut manually to stop the bypass.
- Period of noncompliance: Starting 05:00 AM on November 01, 2009 and stopping 06:15 AM on November 01, 2009.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD has contacted the manufacturers representative to evaluate the system to determine how this can be prevented from reoccurring .
- 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)-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, MSD
eB File





Initiated Nov 01, 2009 12:00 AM thru Nov 30, 2009 11:59 PM

Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0098540
 Facility ID MSD0289
 Water Quality Treatment Center CEDAR CREEK
 Receiving Stream of Treatment Center CEDAR CREEK
 Region CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0289	8605 CEDAR CREEK RD		CEDAR CREEK	GROUND

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	975966	11/01/09 05:00 AM	ELDER	MILLS	REPAIRED - ISSUE RESOLVED	11/01/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	11/01/09 06:15 AM	

Spot Inspections:

Discharge Amount:	207,997 GAL
Cause:	UV EAST CHANNEL EFFLUENT GATE FAILED TO COMPLETELY CLOSE IN AUTOMATIC
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING DIRECTLY INTO STREAM
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED
Repair:	CLOSED GATE IN MANUAL TO STOP FLOW UNTIL CAUSE INVESTIGATED & REPAIRS CAN BE MADE

Notifications:

11/01/09 10:31 AM	DISPUB	Permanent signs posted in area & notification up chain of command for notification by http://www.msdfouky.org/projectwin/
11/01/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 1
Total Work Orders Printed: 1