



MSD

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

August 23, 2007

Ms. Kathy Thurman
Kentucky Division of Water
14 Reilly Road
Frankfort, Kentucky 40601

RE: Cedar Creek Treatment Plant, KPDES No: KY0098540
Discharge Monitoring Report
July 2007

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) report for the Cedar Creek Wastewater Treatment Plant, for the month of June 2007. There were two exceptions this month for Total Phosphorus. This was a result of high influent Phosphorus levels entering the plant. Chemical addition and reduced levels of influent Total Phosphorus have corrected the problem. If you have any questions concerning the attached DMR's, please contact me at (502) 239-7695).

Sincerely,

James E. Porter Jr.
Process Supervisor Central Region

JEP/Cedar Creek 0707.doc

Enclosures

cc: M. Mudd (DOW Louisville)
P. Burgin
E. Brady
T. Singleton
R. Shaw



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

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

MAJOR
(SUBR LV)
F - FINAL
NEW EXPANSION
EFFLUENT

JEFFE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD CEDAR CREEK STP
ADDRESS 8405 CEDAR CREEK RD
LOUISVILLE KY 40291

RY0095540
PERMIT NUMBER

0012
DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO.	DAY	TO	YEAR	MO.	DAY

*** NO DISCHARGE [] ***

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			
OXYGEN, DISSOLVED (00)	00300 1 0 0				8.4			(17)	0	3/1	COND
EFFLUENT GROSS VALUE					INST MIN			MG/L		WEEK	
PH	00400 1 0 0				7.2		7.6	(12)	0	3/1	COND
EFFLUENT GROSS VALUE					MINIMUM		MAXIMUM	SU		WEEK	
SOLIDS, TOTAL SUSPENDED	00500 9 0 0	2846.4	3561.01	(20)		130	183	(17)	0	3/1	COND
RAW SEW/INFLUENT		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L		WEEK	
SOLIDS, TOTAL SUSPENDED	00550 1 0 0	22.18	25.63	(20)		1	1	(17)	0	3/1	COND
EFFLUENT GROSS VALUE		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L		WEEK	
NITROGEN, AMMONIA TOTAL (AS N)	00610 9 0 0	549.10	583.93	(20)		25.00	29.8	(17)	0	3/1	COND
RAW SEW/INFLUENT		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L		WEEK	
NITROGEN, AMMONIA TOTAL (AS N)	00610 1 1 0	3.62	4.28	(20)		0.18	0.23	(17)	0	3/1	COND
EFFLUENT GROSS VALUE		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L		WEEK	
PHOSPHORUS, TOTAL (AS P)	00665 1 1 0	24.22	47.77	(20)		1.05	1.69	(17)	0	3/1	COND
EFFLUENT GROSS VALUE		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L		WEEK	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H. J. SCHROEDER JR
EXECUTIVE DIRECTOR
TYPED OR PRINTED

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.

James E. Roberts
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
502-540-6000
DATE
07 08 21
AREA CODE NUMBER YEAR MO DAY

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
NEW EXPANSION
EFFLUENT

JEFFE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD CEDAR CREEK STP
ADDRESS 8405 CEDAR CREEK RD
LOUISVILLE KY 40291

KT0098540
PERMIT NUMBER

001 2
DISCHARGE NUMBER

FACILITY MSD CEDAR CREEK STP
LOCATION LOUISVILLE KY
ATTN: DEBBIE NEWTON

MONITORING PERIOD						
YEAR	MO.	DAY	TO	YEAR	MO.	DAY

FROM

TO

*** NO DISCHARGE [] ***

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 UP THRU TREATMENT PLANT	2.61	2.88	(03)	*****	*****	*****	*****	*****	0	C/M	C/M
EFFLUENT GROSS VALUE	REPORT	REPORT	MGD	*****	*****	*****	*****	*****		UGUS	
COLIFORM: FECAL GENERAL	3	3	(15)	*****	300	400	100ML	*****	0	3/1	COOK
EFFLUENT GROSS VALUE	*****	*****	***	*****	300	400	100ML	*****		WEEK	
TOD: CARBONALDIVE 05 DAY, 20C	2059.25	2205.87	(25)	*****	95	125	MG/L	*****	0	3/1	COOK
RAW SEW/INFLUENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	MG/L	*****		WEEK	
EFFLUENT GROSS VALUE	MG AVG	MX WK AV	LBS/DY	*****	MG AVG	MX WK AV	MG/L	*****		WEEK	
TOD: CARBONALDIVE 05 DAY, 20C	44.35	51.26	(25)	*****	2	2	MG/L	*****	0	3/1	COOK
EFFLUENT GROSS VALUE	MG	MG	LBS/DY	*****	10	10	MG/L	*****		WEEK	
EFFLUENT GROSS VALUE	MG AVG	MX WK AV	LBS/DY	*****	MG AVG	MX WK AV	MG/L	*****		WEEK	
5-DAY, 20C BOD 5 PERCENT REMOVAL	96.5		*****	*****	96.5		PERCENT	*****	0	1/yr	C/M
PERCENT REMOVAL	*****	*****	***	*****	*****	*****	PERCENT	*****		MONTH	
PERCENT REMOVAL	*****	*****	***	*****	*****	*****	PERCENT	*****		MONTH	
PERCENT REMOVAL	*****	*****	***	*****	*****	*****	PERCENT	*****		MONTH	
PERCENT REMOVAL	*****	*****	***	*****	*****	*****	PERCENT	*****		MONTH	
PERCENT REMOVAL	*****	*****	***	*****	*****	*****	PERCENT	*****		MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

H. S. SHARDESIN JR.
EXECUTIVE DIRECTOR

TYPED OR PRINTED

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James E. Potts
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

50540-6000

AREA CODE NUMBER

DATE

07 08 21

YEAR MO DAY

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

NAME OF TREATMENT PLANT CEDAR CREEK WTP

COUNTY JEFFERSON

MONTH OF: July 2007

KPDES PERMIT NUMBER KY0098540

PLANT CAPACITY 7.5 MGD

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	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)		
																		GAL/DAY X 1000	MLSS X 1000					GAL/DAY X 1000	30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS			WITHDRAWN GALLONS X 1000	
1	2.92			7.2	7.3					9.2			53			1	66		2	1606		503	3.4			300	280							0.10	3
2	2.60	3	3	7.2	7.4					8.7			67			1	80		2	1510	5310	554	0.4	3195	2675	360	310							0.10	3
3	2.34																			1606	5620	590	0.5	3090	2570	340	300								
4	3.74			7.1	7.2					9.2			46			1	69		2	1673		504				350	310							0.10	3
5	2.18																			1775	5220	498	2.8	3760	3165	340	300								
6	2.52																			1704	4550	492	2.8	3715	3095	330	360								
7	2.65																			1746		465				330	300								
8	1.83			7.0	7.6					8.8			49			1	57		2	1702		472				330	260							0.45	3
9	3.78	3	3	7.2	7.6					8.6			163			1	103		2	1610	4260	578	1.8	3445	2925	340	290							0.10	3
10	2.16			7.3	7.4					8.8			188			1	106		2	1762	4480	570	2.4	3020	2515	450	350							0.10	3
11	2.59																			1708	4860	555	2.6	2800	2340	430	330								
12	2.50																			1692	1500	500	2.2	1550		200	180								
13	1.17																			1586	5040	321	2.8	2790	2200	350	260								
14	2.53																			1433		481				330	240								
15	1.39			7.2	7.3					9.0			155			1	128		2	1978		450				300	280							0.10	3
16	2.71	3	3	7.3	7.4					8.8			214			1	122		2	1902	3760	500	3	2880	2385	400	300							0.10	3
17	2.26			7.2	7.3					8.6			181			1	126		2	2088		600	2.4			400	290							0.50	3
18	2.23																			2163	3800	450	2.6	2685	2280	400	300								
19	2.78																			1988	3990	465	2.4	2725	2325	360	280								
20	4.33																			1999	4000	380	2.6	2230	2050	300	280								
21	2.14																			4158		450				350	300								
22	2.78			7.2	7.3					8.9			155			1	94		2	4175		460				320	290							0.10	3
23	3.13	3	3	7.4	7.3					8.4			153			1	86		2	4133	4420	610	2.2	3005	2360	460	300							0.10	3
24	2.64			7.3	7.4					8.4			140			1	98		2	2738		490	2.6			430	290							0.28	3
25	2.66																			2075	4470	490	2.8	2690	2165	450	310								
26	2.31																			1990	5060	470	2.4	2615	2140	440	300								
27	2.84																			1745	4960	540	2.6	2510	2065	420	310								
28	3.80																			1954		485				380	300								
29	2.24																			1958		486				410	300								
30	2.75	3	3																	2047		460	2.2			410	310								
31	2.56																			1897	5540	500	2.8	2790	2305	420	350								
Tot.	81.06	15	15																	64101															
Avg.	2.61	3	3	7.2	7.4					8.8			130			1	95		2	2067.8	4491	495.8	2.377	2861	2445	368.7	295.5							0.18	3

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
24903
FLOW

12133
CBOD

13535
TSS

Jospeh Shaun Smith
OPERATOR

17987
CERT. NO.

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

(502) 239-7695

PLANT TELEPHONE