



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)

February 22, 2011

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

**Re: MSD Metro Operations  
Lake of the Woods WQTC; KPDES No.: KY0044342  
Discharge Monitoring Reports –January 2011**

Dear Ms. Thompson:

Attached is the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the Lake of the Woods WQTC; KPDES No.: KY0044342 for the month of January 2011.

There were no bypasses or overflow reports.

There was one exceedence for monthly average Ammonia concentration which was attributable to low dissolved oxygen caused by ice covering the lagoon during cold temperatures. On January 12, 2011, in order to increase the dissolved oxygen level, we broke the ice on the top of the lagoon to. Additionally, to expedite nitrification, 10,000 gallons of activated sludge was added on January 14-15, 2011. Quality control testing on January 17, 2011, indicated that the plant was below the permitted limit for Ammonia. Unfortunately, the permitted sample on January 18, 2011, was again above the permissible limit. To address this, an additional 20,000 gallons of activated sludge was added to the lagoon, but quality control testing did not indicate that the plant was back in compliance until after February 1, 2011.

On February 8, 2011, testing determined that the permitted ammonia result was 1.8 mg/l. Nitrification has been established. The facility is now in compliance with Ammonia.

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

Sincerely,

Duane V. Wright  
Process Supervisor Central Region



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

DVW/Lake of the Woods 1.11

Enclosures

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

NAME LAKE OF THE WOODS WQTC MSD  
ADDRESS C/O CEDAR CREEK WQTC  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
FACILITY LAKE OF THE WOODS WQTC MSD  
LOCATION LOUISVILLE KY 40279  
ATTN: DENNIS THOMASSON, SR METRO OFE

KY0044342  
PERMIT NUMBER

001 Z  
DISCHARGE NUMBER

MINOR (SUBR LV)  
7 - FINAL  
SANITARY WASTEWATER EFFLUENT  
\*\*\* NO DISCHARGE  \*\*\*  
JEFFE

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

FROM

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	*****	*****		13	*****	*****	( 17 )	0	0/31	LR
	PERMIT REQUIREMENT	*****	*****	****	7 INST MIN	*****	*****	MG/L		ONCE / MONTH	GRAB
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		7.6	*****	*****	( 12 )	0	0/31	LR
	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE / MONTH	GRAB
SOLIDS, TOTAL SUSPENDED 00330 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	5.2	5.2	( 26 )	*****	23	23	( 17 )	0	0/31	CP
	PERMIT REQUIREMENT	11.0 30DA AVG	22.0 DAILY MX	LBS/DY	*****	30 30DA AVG	60 DAILY MX	MG/L		ONCE / MONTH	CUMUL
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 2 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.48	2.48	( 25 )	*****	11	11	( 17 )	1	0/31	CP
	PERMIT REQUIREMENT	3.57 30DA AVG	7.34 DAILY MX	LBS/DY	*****	10 30DA AVG	20 DAILY MX	MG/L		ONCE / MONTH	CUMUL
PHOSPHORUS, TOTAL (AS P) 00665 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	2.5	2.5	( 17 )	0	0/31	CP
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		ONCE / MONTH	CUMUL
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.030	0.078	( 03 )	*****	*****	*****		0	CN	CN
	PERMIT REQUIREMENT	REPORT 30DA AVG	REPORT INST MAX	MGD	*****	*****	*****	****		WEEK / DAYS	INSTAN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	20.010	20.010	( 17 )	0	0/31	LR
	PERMIT REQUIREMENT	*****	*****	****	*****	0.011 30DA AVG	0.017 DAILY MX	MG/L		ONCE / MONTH	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER H.J. SCHARDEIN, 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.				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Dennis Thomasson</i>			TELEPHONE 502 540 1000		DATE 11 2 28	
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) see COVER LETTER											

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

NAME LAKE OF THE WOODS WQTC MSD

ADDRESS C/O CEDAR CREEK WQTC

8405 CEDAR CREEK RD

LOUISVILLE

KY 40211

FACILITY LAKE OF THE WOODS WQTC MSD

LOCATION LOUISVILLE

KY 40277

ATTN: DENNIS THOMASSON, SR METRO DPS

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

KY0044342

PERMIT NUMBER

001 E

DISCHARGE NUMBER

MINOR

(SUBR LV)

T - FINAL

SANITARY WASTEWATER

EFFLUENT

\*\*\* NO DISCHARGE [ ] \*\*\*

NOTE: Read Instructions before completing this form.

JEFFE

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	11	01	01		11	01	01

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	*****	*****		*****	1	1	( 18 )	0	0/31	GR
74055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	200	400	#/ 100ML		ONCE / MONTH	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	2.9	2.9	( 26 )	*****	13	13	( 19 )	0	0/31	CP
50082 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	11.0	22.0	LBS/DY	*****	30	60	MG/L		ONCE / MONTH	COMPO
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
H. J. SCHARDEIN, 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.

*Doreen J. Wright*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
502 540 6000		11	2	28
AREA CODE	NUMBER	YEAR	MO	DAY

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

<b>Lake of the Woods</b>		Report for	<b>Jan-11</b>			Tot. Exc.=	<b>0 Violation</b>			
Tot. Flow=	0.936	Concentrations				Pounds				
Date	Flow	TSS	BOD	NH3	Fecal	TSS	BOD	NH3	Tot. Phos.	
1/1/11	0.078									
1/2/11	0.065									
1/3/11	0.041									
1/4/11	0.029									
1/5/11	0.021									
1/6/11	0.021									
1/7/11	0.023									
1/8/11	0.024									
1/9/11	0.024									
1/10/11	0.023									
1/11/11	0.024									
1/12/11	0.022									
1/13/11	0.018									
1/14/11	0.016									
1/15/11	0.019									
1/16/11	0.022									
1/17/11	0.023									
1/18/11	0.027	23	13	11	1	5.179	2.927	2.477	2.51	
1/19/11	0.04									
1/20/11	0.036									
1/21/11	0.033									
1/22/11	0.03									
1/23/11	0.026									
1/24/11	0.026									
1/25/11	0.027									
1/26/11	0.026									
1/27/11	0.023									
1/28/11	0.035									
1/29/11	0.037									
1/30/11	0.041									
1/31/11	0.036									
Average	0.030	23.00	13.00	11.00	1.00	5.18	2.93	2.48	2.51	
Maximum	0.078	23.00	13.00	11.00	1.00	5.18	2.93	2.48	2.51	