



MSD

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

December 22, 2008

Ms. Carolena Bentley
DMR Coordinator
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**Re: MSD Metro Operations
Timberlake WTP; KPDES No.: KY0043087
Discharge Monitoring Reports – November 2008**

Dear Ms. Bentley

Attached is the Discharge Monitoring Reports (DMRs) and the Monthly operator report (MOR) for the Timberlake WTP, KPDES No.: KY0043087 for the month of November 2008.

If you have any questions concerning the attached DMRs please contact me at (502)241-9093.

Sincerely,

John Kessel
Process Supervisor, East Region

JMK/Timberlake 1108

Enclosures

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



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

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

MINOR
(SUBR LV)
F - FINAL
MUNICIPAL DISCHARGE
EFFLUENT

JEFF

*** NO DISCHARGE ***

NOTE: Read Instructions before completing this form.

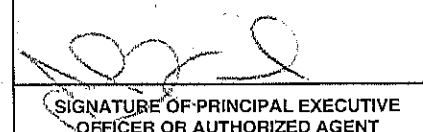
PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD TIMBERLAKE STP
ADDRESS C/O CEDAR CREEK STP
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD TIMBERLAKE STP
LOCATION PROSPECT KY 40057
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0043087
PERMIT NUMBER

001 2
DISCHARGE NUMBER

| MONITORING PERIOD | | | | | | |
|-------------------|----|-----|----|------|----|-----|
| YEAR | MO | DAY | TO | YEAR | MO | DAY |
| 00 | 01 | 01 | | 00 | 01 | 00 |

| 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 (DO) | 00300 1 0 0 | ***** | ***** | | 8.2 | ***** | ***** | (17) | 0 | 1/7 | Grab | |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | INST MIN | ***** | ***** | MG/L | | WEEKLY | GRAB | |
| PH | 00400 1 0 0 | ***** | ***** | | 6.9 | ***** | 7.2 | (12) | 0 | 1/7 | Grab | |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | 6.0 MINIMUM | ***** | 7.0 MAXIMUM | 5U | | WEEKLY | GRAB | |
| SOLIDS, TOTAL SUSPENDED | 00500 0 0 0 | ***** | ***** | (26) | ***** | 333.0 | 388.0 | (17) | 0 | 1/7 | Comp | |
| RAW SEW/INFLUENT | PERMIT REQUIREMENT | REPORT MD AVG | REPORT MX WK AV | LBS/DY | ***** | REPORT MD AVG | REPORT MX WK AV | MG/L | | WEEKLY | COMPOS | |
| SOLIDS, TOTAL SUSPENDED | 00530 1 0 0 | ***** | ***** | (26) | ***** | 12.0 | 10.0 | (17) | 0 | 1/7 | Comp | |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | 50.0 MD AVG | 75.0 MX WK AV | LBS/DY | ***** | 30 MD AVG | 45 MX WK AV | MG/L | | WEEKLY | COMPOS | |
| NITROGEN, AMMONIA TOTAL (AS N) | 00610 0 0 0 | ***** | ***** | (26) | ***** | 29.0 | 33.0 | (17) | 0 | 1/7 | Comp | |
| RAW SEW/INFLUENT | PERMIT REQUIREMENT | REPORT MD AVG | REPORT MX WK AV | LBS/DY | ***** | REPORT MD AVG | REPORT MX WK AV | MG/L | | WEEKLY | COMPOS | |
| NITROGEN, AMMONIA TOTAL (AS N) | 00610 1 2 0 | ***** | ***** | (26) | ***** | 0.50 | 0.60 | (17) | 0 | 1/7 | Comp | |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | 8 MD AVG | 12 MX WK AV | LBS/DY | ***** | 5 MD AVG | 7.5 MX WK AV | MG/L | | WEEKLY | COMPOS | |
| PHOSPHORUS, TOTAL (AS P) | 00665 1 0 0 | ***** | ***** | | ***** | 1.0 | 1.0 | (17) | 0 | 2/30 | Comp | |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MD AVG | REPORT MX WK AV | MG/L | | WICE/MONTH | 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. | | | |  SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | | TELEPHONE | | DATE | | |
| TYPED OR PRINTED | | | | | | | | 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)

MINOR
(SUBR LV)
F - FINAL
MUNICIPAL DISCHARGE
EFFLUENT

JEFFE

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

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

NAME MSD TIMBERLAKE STP
ADDRESS C/O CEDAR CREEK STP
240E CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD TIMBERLAKE STP
LOCATION PROSPECT KY 40059
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0043087
PERMIT NUMBER

001 2
DISCHARGE NUMBER

| MONITORING PERIOD | | | | | | |
|-------------------|-----|-----|----|------|-----|-----|
| YEAR | MO. | DAY | TO | YEAR | MO. | DAY |
| 00 | 11 | 01 | | 00 | 11 | 00 |

| 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 | 0.076 | 0.101 | (CFS) | ***** | ***** | ***** | | 0 | Cont | Cont. | |
| 50050 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | REPORT 30DA AVG | REPORT DAILY MX | MOD | ***** | ***** | ***** | **** | | CONTINUOUS | |
| CHLORINE, TOTAL RESIDUAL | ***** | ***** | | ***** | <0.010 | <0.010 | (15) | 0 | 1/2 | Grab | |
| 50060 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | 0.011 30DA AVG | 0.019 DAILY MX | MG/L | | WEEKLY GRAB | |
| COLIFORM, FECAL GENERAL | ***** | ***** | | ***** | 10 | 10 | (15) | 0 | 1/2 | Grab | |
| 74055 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | 200 30DA GEO | 400 7 DA GEO | #/ 100ML | | WEEKLY GRAB | |
| BOD, CARBONACEOUS 5 DAY, 20C | 162.0 | 233.0 | (26) | ***** | 244.0 | 363.0 | (15) | 0 | 1/2 | Comp | |
| 80062 0 0 0 RAW SEW/INFLUENT | PERMIT REQUIREMENT | REPORT MD AVG | REPORT MX WK AV | LBS/DY | ***** | REPORT MD AVG | REPORT MX WK AV | MG/L | | WEEKLY COMPLE | |
| BOD, CARBONACEOUS 5 DAY, 20C | 2.0 | 2.0 | (26) | ***** | 3.0 | 4.0 | (15) | 0 | 1/2 | Comp | |
| 80062 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | 17 MD AVG | 25 MX WK AV | LBS/DY | ***** | 10 MD AVG | 15 MX WK AV | MG/L | | WEEKLY COMPLE | |
| BOD, CARB-5 DAY, 20 DEG C, PERCENT REMVL | ***** | ***** | | ***** | 99.0% | ***** | ***** | (20) | 0 | 1/30 | Cal |
| 80091 1 0 0 PERCENT REMOVAL | PERMIT REQUIREMENT | ***** | ***** | **** | 85 MD MIN | ***** | ***** | PER- CENT | | ONCE/ MONTH | |
| SOLIDS, SUSPENDED PERCENT REMOVAL | ***** | ***** | | ***** | 97.0% | ***** | ***** | (20) | | 1/30 | Cal |
| 81011 1 0 0 PERCENT REMOVAL | PERMIT REQUIREMENT | ***** | ***** | **** | 85 MD MIN | ***** | ***** | PER- CENT | | ONCE/ MONTH | |

| | | | | | | | |
|---|---|--|-----------|----------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 2 xcc Dir W T. Schaefer, Jr. 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 | TELEPHONE | | DATE | | |
| | | | AREA CODE | NUMBER | YEAR | MO | DAY |
| | | | 502 | 596-6410 | 08 | 12 | 22 |

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

Timberlake

data

| Date | Flow | INFLUENT Concentration | | | Pounds | | |
|------------|-------|------------------------|--------|-------|---------|---------|--------|
| | | TSS | BOD | NH3 | TSS | BOD | NH3 |
| 11/1/2008 | 0.073 | | | | | | |
| 11/2/2008 | 0.079 | | | | | | |
| 11/3/2008 | 0.068 | | | | | | |
| 11/4/2008 | 0.065 | | | | | | |
| 11/5/2008 | 0.067 | 388 | 289 | 32 | 216.807 | 161.487 | 17.881 |
| 11/6/2008 | 0.067 | | | | | | |
| 11/7/2008 | 0.079 | | | | | | |
| 11/8/2008 | 0.07 | | | | | | |
| 11/9/2008 | 0.078 | | | | | | |
| 11/10/2008 | 0.062 | | | | | | |
| 11/11/2008 | 0.073 | | | | | | |
| 11/12/2008 | 0.081 | 302 | 363 | 26 | 204.013 | 245.221 | 17.564 |
| 11/13/2008 | 0.082 | | | | | | |
| 11/14/2008 | 0.079 | | | | | | |
| 11/15/2008 | 0.069 | | | | | | |
| 11/16/2008 | 0.086 | | | | | | |
| 11/17/2008 | 0.075 | | | | | | |
| 11/18/2008 | 0.071 | | | | | | |
| 11/19/2008 | 0.068 | 354 | 239 | 25 | 200.760 | 135.542 | 14.178 |
| 11/20/2008 | 0.072 | | | | | | |
| 11/21/2008 | 0.063 | | | | | | |
| 11/22/2008 | 0.079 | | | | | | |
| 11/23/2008 | 0.074 | | | | | | |
| 11/24/2008 | 0.101 | | | | | | |
| 11/25/2008 | 0.076 | 368 | 167 | 33 | 233.253 | 105.851 | 20.917 |
| 11/26/2008 | 0.079 | | | | | | |
| 11/27/2008 | 0.086 | | | | | | |
| 11/28/2008 | 0.075 | | | | | | |
| 11/29/2008 | 0.079 | | | | | | |
| 11/30/2008 | 0.089 | | | | | | |
| 12/1/2008 | | | | | | | |
| Average | 0.076 | 353.00 | 264.50 | 29.00 | 213.71 | 162.03 | 17.63 |
| Maximum | 0.101 | 388.00 | 363.00 | 33.00 | 233.25 | 245.22 | 20.92 |

Timberlake

| Timberlake Tot. Flow= Date | Report for Flow | Nov-08 Concentrations TSS | BOD | NH3 | Tot. Exc.= Fecal | 0 TSS | (Influent data below.) Pounds BOD | NH3 | Tot. Phos. |
|----------------------------------|--------------------|---------------------------------|-----|------|---------------------|----------|---|-------|------------|
| 11/1/08 | 2.265 | | | | | | | | |
| 11/2/08 | 0.073 | | | | | | | | |
| 11/3/08 | 0.079 | | | | | | | | |
| 11/4/08 | 0.068 | | | | | | | | |
| 11/5/08 | 0.065 | | | | | | | | |
| 11/6/08 | 0.067 | 10 | 4 | 0.34 | 1 | 5.588 | 2.235 | 0.190 | 1.190 |
| 11/7/08 | 0.067 | | | | | | | | |
| 11/8/08 | 0.079 | | | | | | | | |
| 11/9/08 | 0.07 | | | | | | | | |
| 11/10/08 | 0.078 | | | | | | | | |
| 11/11/08 | 0.062 | | | | | | | | |
| 11/12/08 | 0.073 | | | | | | | | |
| 11/13/08 | 0.081 | 8 | 3 | 0.5 | 1 | 5.404 | 2.027 | 0.338 | 0.900 |
| 11/14/08 | 0.082 | | | | | | | | |
| 11/15/08 | 0.079 | | | | | | | | |
| 11/16/08 | 0.069 | | | | | | | | |
| 11/17/08 | 0.086 | | | | | | | | |
| 11/18/08 | 0.075 | | | | | | | | |
| 11/19/08 | 0.071 | | | | | | | | |
| 11/20/08 | 0.068 | 14 | 3 | 0.62 | 1 | 7.940 | 1.701 | 0.352 | 0.905 |
| 11/21/08 | 0.072 | | | | | | | | |
| 11/22/08 | 0.063 | | | | | | | | |
| 11/23/08 | 0.079 | | | | | | | | |
| 11/24/08 | 0.074 | | | | | | | | |
| 11/25/08 | 0.101 | | | | | | | | |
| 11/26/08 | 0.076 | 16 | 4 | 0.62 | 1 | 10.141 | 2.535 | 0.393 | 0.724 |
| 11/27/08 | 0.079 | | | | | | | | |
| 11/28/08 | 0.086 | | | | | | | | |
| 11/29/08 | 0.075 | | | | | | | | |
| 11/30/08 | 0.079 | | | | | | | | |
| 12/1/08 | 0.089 | | | | | | | | |

| | | | | | | | | | |
|---------|-----------|-------|------|------|------|-------|------|------|------|
| Average | 0.076 | 12.00 | 3.50 | 0.52 | 1.00 | 7.27 | 2.12 | 0.32 | 0.93 |
| Maximum | 0.101 | 16.00 | 4.00 | 0.62 | 1.00 | 10.14 | 2.54 | 0.39 | 1.19 |
| Exceed. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minimum | 0.062 MIN | | MAX | | | | | | |
| | DO (min) | | | | | | | | |
| | pH | | | | | | | | |
| | TRC | | | | | | | | |
| | Avg | | Max | | | | | | |
| | T. Phos | 0 | 0 | | | | | | |

data
data
data

Timberlake

TSS Rem BOD Rem

0.974227 0.986159

0.97351 0.991736

0.960452 0.987448

0.956522 0.976048

| 97% | 99% |
|-----|-----|
| 0 | 0 |
| 0 | 0 |