



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

May 14, 2015

Cheryl Edwards  
Kentucky Division of Water  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

**Re: MSD Metro Operations  
Shadow Wood WQTC; KPDES No.: KY0031810  
Discharge Monitoring Reports for April 2015.**

Dear Ms. Edwards:

Attached is the Discharge Monitoring Reports (DMRs) and the Monthly Operator Report (MOR) for the Shadow Wood WQTC; KPDES No.: KY0031810 for the month of April 2015.

There were no exceedances, overflows or bypasses to report for this month.

If you have any questions concerning the attached DMRs, please contact me at (502)587-5856.

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright  
Process Supervisor, East Region

DVW/Shadow Wood 04/15.

Enclosures

cc: T. Singleton  
R. Shaw



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

DMR Copy of Record

Permit

Permit #:  
Major:

KY0031810  
No

Permittee:  
Permittee Address:

SHADOWWOOD WQTC MSD  
5497 FOREST LAKE DR  
LOUISVILLE, KY 40059

Facility:  
Facility Location:

SHADOWWOOD WQTC MSD  
5497 FOREST LAKE DR  
PROSPECT, KY 40059

Permitted Feature:

001  
External Outfall

Discharge:

001-1  
SANITARY WASTEWATER

Report Dates & Status

Monitoring Period:

From 04/01/15 to 04/30/15

DMR Due Date:

05/28/15

Status:

NetDMR Validated

Considerations for Form Completion

TOTAL NITROGEN IS THE SUMMATION OF THE ANALYTICAL RESULTS FOR TOTAL NITRATES, TOTAL NITRITES AND TOTAL KJELDAHL NITROGEN

Principal Executive Officer

First Name:  
Last Name:

Greg  
Heitzman

Title:

Exec. Dir.

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

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| Parameter |                                          | Monitoring Location | Season # | Param. NODI |             | Quantity or Loading |                |             |                  |           | Quality or Concentration |            |             |                |             |                  |              | # of Ex. | Frequency of Analysis | Sample Type |
|-----------|------------------------------------------|---------------------|----------|-------------|-------------|---------------------|----------------|-------------|------------------|-----------|--------------------------|------------|-------------|----------------|-------------|------------------|--------------|----------|-----------------------|-------------|
| Code      | Name                                     |                     |          |             |             | Qualifier 1         | Value 1        | Qualifier 2 | Value 2          | Units     | Qualifier 1              | Value 1    | Qualifier 2 | Value 2        | Qualifier 3 | Value 3          | Units        |          |                       |             |
| 00300     | Oxygen, dissolved [DO]                   | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                |             |                  |           | =                        | 7          |             |                |             |                  | 19 - mg/L    |          | 01/01 - Daily         | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                |             |                  |           | >=                       | 7 INST MIN |             |                |             |                  | 19 - mg/L    | 0        | 01/07 - Weekly        | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 00400     | pH                                       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                |             |                  |           | =                        | 7          |             |                | =           | 8                | 12 - SU      |          | 01/01 - Daily         | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                |             |                  |           | >=                       | 6 MINIMUM  |             |                | <=          | 9 MAXIMUM        | 12 - SU      | 0        | 01/07 - Weekly        | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 00530     | Solids, total suspended                  | 1 - Effluent Gross  | 0        | --          | Sample      | =                   | 2.2            | =           | 4.2              | 26 - lb/d |                          |            | =           | 5              | =           | 7                | 19 - mg/L    |          | 01/07 - Weekly        | CP - COMPOS |
|           |                                          |                     |          |             | Permit Req. | <=                  | 21.3 MO AVG    | <=          | 31.9 WKLY AVG    | 26 - lb/d |                          |            | <=          | 30 MO AVG      | <=          | 45 WKLY AVG      | 19 - mg/L    | 0        | 01/07 - Weekly        | 24 - COMP24 |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 00600     | Nitrogen, total [as N]                   | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                |             |                  |           |                          |            | =           | 17             | =           | 19               | 19 - mg/L    |          | 01/07 - Weekly        | CP - COMPOS |
|           |                                          |                     |          |             | Permit Req. |                     |                |             |                  |           |                          |            |             | Req Mon MO AVG |             | Req Mon WKLY AVG | 19 - mg/L    | 0        | 01/07 - Weekly        | 24 - COMP24 |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 00610     | Nitrogen, ammonia total [as N]           | 1 - Effluent Gross  | 2        | --          | Sample      | =                   | 0.22           | =           | 0.32             | 26 - lb/d |                          |            | =           | 0.5            | =           | 0.5              | 19 - mg/L    |          | 01/07 - Weekly        | CP - COMPOS |
|           |                                          |                     |          |             | Permit Req. | <=                  | 3.54 MO AVG    | <=          | 5.32 WKLY AVG    | 26 - lb/d |                          |            | <=          | 5 MO AVG       | <=          | 7.5 WKLY AVG     | 19 - mg/L    | 0        | 01/07 - Weekly        | 24 - COMP24 |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 00665     | Phosphorus, total [as P]                 | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                |             |                  |           |                          |            | =           | 0.6            | =           | 0.9              | 19 - mg/L    |          | 01/07 - Weekly        | CP - COMPOS |
|           |                                          |                     |          |             | Permit Req. |                     |                |             |                  |           |                          |            |             | Req Mon MO AVG |             | Req Mon WKLY AVG | 19 - mg/L    | 0        | 01/07 - Weekly        | 24 - COMP24 |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 50050     | Flow, in conduit or thru treatment plant | 1 - Effluent Gross  | 0        | --          | Sample      | =                   | 0.058          | =           | 0.15             | 03 - MGD  |                          |            |             |                |             |                  |              |          | 99/99 - Continuous    | CN - CONTIN |
|           |                                          |                     |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon WKLY AVG | 03 - MGD  |                          |            |             |                |             |                  |              | 0        | 99/99 - Continuous    | CN - CONTIN |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 50060     | Chlorine, total residual                 | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                |             |                  |           |                          |            | =           | 0.01           | =           | 0.01             | 19 - mg/L    |          | 01/01 - Daily         | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                |             |                  |           |                          |            | <=          | .011 MO AVG    | <=          | .019 WKLY AVG    | 19 - mg/L    | 0        | 01/07 - Weekly        | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 51040     | E. coli                                  | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                |             |                  |           |                          |            | =           | 1              | =           | 1                | 13 - #/100mL |          | 01/07 - Weekly        | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                |             |                  |           |                          |            | <=          | 130 30DA GEO   | <=          | 240 7 DA GEO     | 13 - #/100mL | 0        | 01/07 - Weekly        | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |
| 80082     | BOD, carbonaceous, 05 day, 20 C          | 1 - Effluent Gross  | 0        | --          | Sample      | =                   | 1.79           | =           | 2.41             | 26 - lb/d |                          |            | =           | 4              | =           | 5                | 19 - mg/L    |          | 01/07 - Weekly        | CP - COMPOS |
|           |                                          |                     |          |             | Permit Req. | <=                  | 7.09 MO AVG    | <=          | 10.64 WKLY AVG   | 26 - lb/d |                          |            | <=          | 10 MO AVG      | <=          | 20 WKLY AVG      | 19 - mg/L    | 0        | 01/07 - Weekly        | 24 - COMP24 |
|           |                                          |                     |          |             | Value NODI  |                     |                |             |                  |           |                          |            |             |                |             |                  |              |          |                       |             |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

| Name                   | Type | Size  |
|------------------------|------|-------|
| shwood042015_cover.pdf | pdf  | 47381 |
| SHWOOD042015_MOR.pdf   | pdf  | 25412 |

Report Last Saved By

SHADOWWOOD WQTC MSD

User:

kevin.ries@louisvillemsd.org

Date/Time:

2015-05-26 10:25 (Time Zone: -04:00)



| SHADOW WOOD |         | Report for     |     | Apr-15 |       | Tot. Exc.= |       | 0     |        |      |      |        |        |  |  |
|-------------|---------|----------------|-----|--------|-------|------------|-------|-------|--------|------|------|--------|--------|--|--|
| Tot. Flow=  | 1.75211 | Concentrations |     | Pounds |       | Conc.      |       |       |        |      |      |        |        |  |  |
| Date        | Flow    | TSS            | BOD | NH3    | Ecoli | TSS        | BOD   | NH3   | T Phos | D.O. | p.H. | TRC    | Tot. N |  |  |
| 4/1/15      | 0.045   | 6              | 3   | 0.53   |       | 2.251      | 1.126 | 0.199 | 0.338  | 8    | 7    | <0.010 | 17.61  |  |  |
| 4/2/15      | 0.052   |                |     |        | 1     |            |       |       |        | 7.9  | 7.1  | <0.010 |        |  |  |
| 4/3/15      | 0.150   |                |     |        |       |            |       |       |        | 8.3  | 7.4  | <0.010 |        |  |  |
| 4/4/15      | 0.075   |                |     |        |       |            |       |       |        | 8    | 7.2  | <0.010 |        |  |  |
| 4/5/15      | 0.054   |                |     |        |       |            |       |       |        | 8    | 7    | <0.010 |        |  |  |
| 4/6/15      | 0.048   |                |     |        |       |            |       |       |        | 7.7  | 7.1  | <0.010 |        |  |  |
| 4/7/15      | 0.057   |                |     |        |       |            |       |       |        | 8.1  | 7.2  | <0.010 |        |  |  |
| 4/8/15      | 0.072   | 7              | 4   | 0.53   |       | 4.213      | 2.407 | 0.319 | 0.315  | 7.2  | 6.8  | <0.010 | 15.51  |  |  |
| 4/9/15      | 0.069   |                |     |        | 1     |            |       |       |        | 7.6  | 6.9  | <0.010 |        |  |  |
| 4/10/15     | 0.062   |                |     |        |       |            |       |       |        | 7.6  | 6.5  | <0.010 |        |  |  |
| 4/11/15     | 0.058   |                |     |        |       |            |       |       |        | 7.9  | 6.6  | <0.010 |        |  |  |
| 4/12/15     | 0.056   |                |     |        |       |            |       |       |        | 7.5  | 6.8  | <0.010 |        |  |  |
| 4/13/15     | 0.047   |                |     |        |       |            |       |       |        | 7.8  | 7.5  | <0.010 |        |  |  |
| 4/14/15     | 0.058   |                |     |        |       |            |       |       |        | 8.5  | 7.4  | <0.010 |        |  |  |
| 4/15/15     | 0.053   | 2              | 4   | 0.45   |       | 0.883      | 1.766 | 0.199 | 0.692  | 7.7  | 7.4  | <0.010 | 19.16  |  |  |
| 4/16/15     | 0.053   |                |     |        | 1     |            |       |       |        | 8    | 7.3  | <0.010 |        |  |  |
| 4/17/15     | 0.058   |                |     |        |       |            |       |       |        | 8.5  | 7.4  | <0.010 |        |  |  |
| 4/18/15     | 0.064   |                |     |        |       |            |       |       |        | 7.3  | 7.5  | <0.010 |        |  |  |
| 4/19/15     | 0.072   |                |     |        |       |            |       |       |        | 7.5  | 7.3  | <0.010 |        |  |  |
| 4/20/15     | 0.064   |                |     |        |       |            |       |       |        | 7.7  | 7    | <0.010 |        |  |  |
| 4/21/15     | 0.053   |                |     |        |       |            |       |       |        | 7.9  | 7.2  | <0.010 |        |  |  |
| 4/22/15     | 0.045   | 4              | 5   | 0.42   |       | 1.493      | 1.866 | 0.157 | 0.941  | 7.5  | 7.4  | <0.010 | 17.21  |  |  |
| 4/23/15     | 0.046   |                |     |        | 1     |            |       |       |        | 7.9  | 7.2  | <0.010 |        |  |  |
| 4/24/15     | 0.045   |                |     |        |       |            |       |       |        | 8.1  | 7.2  | <0.010 |        |  |  |
| 4/25/15     | 0.049   |                |     |        |       |            |       |       |        | 8    | 7.3  | <0.010 |        |  |  |
| 4/26/15     | 0.066   |                |     |        |       |            |       |       |        | 7.9  | 7.1  | <0.010 |        |  |  |
| 4/27/15     | 0.049   |                |     |        |       |            |       |       |        | 7.7  | 7.2  | <0.010 |        |  |  |
| 4/28/15     | 0.047   |                |     |        |       |            |       |       |        | 8.1  | 7.1  | <0.010 |        |  |  |
| 4/29/15     | 0.016   |                |     |        |       |            |       |       | 0.769  | 7.8  | 7.1  | <0.010 |        |  |  |
| 4/30/15     | 0.068   |                |     |        |       |            |       |       |        | 7.6  | 7.4  | <0.010 |        |  |  |
| 5/1/15      |         |                |     |        |       |            |       |       |        |      |      |        |        |  |  |
| Average     | 0.058   | 5              | 4   | 0.5    | 1.00  | 2          | 1.791 | 0.22  | 0.6    | 7.84 | 7    | 0.00   | 17.37  |  |  |
| Maximum     | 0.150   | 7              | 5   | 0.5    | 1.00  | 4          | 2.407 | 0.3   | 0.9    | 8.50 | 8    | 0.00   | 19.16  |  |  |
| Exceed.     | 1       | 0              | 0   | 0      | 0     | 0          | 0     | 0     | 0      |      |      |        |        |  |  |