



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

November 12, 2013

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

**Re: MSD Metro Operations
Chenoweth Hills WQTC; KPDES No.: KY0029459
Discharge Monitoring Reports – October 2013**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Chenoweth Hills WQTC, KPDES No.: KY0029459 for the month of October 2013.

Also attached are a bypass letter and overflow report.

There were no exceedences.,

If you have any questions concerning the attached DMRs, 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/Chenoweth Hills 10.13

Enclosures

cc: R. Shaw
T. Singleton



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

DMR Copy of Record

| | | | |
|--------------------|-------------------------|--------------------|--|
| Permit | | | |
| Permit #: | KY0029459 | Permittee: | CHENOWETH HILLS WQTC MSD |
| Major: | No | Permittee Address: | 4305 ST RENE CT JEFFERSONTOWN, KY 40299 |
| Permitted Feature: | 001 External Outfall | Discharge: | 001-1 SANITARY WASTEWATER |
| Facility: | | Facility Location: | CHENOWETH HILLS WQTC MSD 4305 ST RENE CT JEFFERSONTOWN, KY 40299 |

| | | | |
|----------------------------------|---------------------------|---------------|----------|
| Report Dates & Status | | | |
| Monitoring Period: | From 10/01/13 to 10/31/13 | DMR Due Date: | 01/28/14 |
| Status: | NetDMR Validated | | |

Considerations for Form Completion
 Parameter 00610 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

| | | | |
|------------------------------------|----------|------------|--------------|
| Principal Executive Officer | | | |
| First Name: | Greg | Title: | Exec. Dir. |
| Last Name: | Heitzman | Telephone: | 502-540-6000 |

No Data Indicator (NODI)
 Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-------|--|---------------------|----------|-------------|---------------------|---------|------------------|---------|------------------|--------------------------|----------------|---------------|------------------|---------------|--------------|-----------------------|--|--|------------------------|
| | | | | | 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 | | | | = | 7 | | | | 19 - mg/L | 0 | 27/30 - 27 Per Month 01/07 - Weekly | GR - GRAB GR - GRAB |
| | | | | | Permit Req. | >= | 7 INST MIN | | | | | | | 19 - mg/L | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | = | 6 | | | | = | 8 | | | 12 - SU | 0 | 27/30 - 27 Per Month 01/07 - Weekly | GR - GRAB GR - GRAB | |
| | | | | | Permit Req. | >= | 6 MINIMUM | | | <= | 9 MAXIMUM | | | 12 - SU | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | = | 3 | = | 3 | 26 - lb/d | = | 3 | = | 3 | 19 - mg/L | 0 | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS CP - COMPOS | |
| | | | | | Permit Req. | <= | 50 30DA AVG | <= | 100 DAILY MX | 26 - lb/d | <= | 30 30DA AVG | <= | 60 DAILY MX | 19 - mg/L | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00610 | Nitrogen, ammonia total [as N] | 1 - Effluent Gross | 1 | -- | Sample | = | 0.3 | = | 0.5 | 26 - lb/d | = | 0.4 | = | 0.5 | 19 - mg/L | 0 | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS CP - COMPOS | |
| | | | | | Permit Req. | <= | 6.67 30DA AVG | <= | 13.3 DAILY MX | 26 - lb/d | <= | 4 30DA AVG | <= | 8 DAILY MX | 19 - mg/L | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00665 | Phosphorus, total [as P] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 2.7 | = | 3.2 | 19 - mg/L | 0 | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS CP - COMPOS | |
| | | | | | Permit Req. | | | | | | Req Mon MO AVG | | Req Mon DAILY MX | 19 - mg/L | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 50050 | Flow, in conduit or thru treatment plant | 1 - Effluent Gross | 0 | -- | Sample | = | 0.155 | = | 0.832 | 03 - MGD | | | | | | 0 | 99/99 - Continuous 99/99 - Continuous | CN - CONTIN CN - CONTIN | |
| | | | | | Permit Req. | | Req Mon 30DA AVG | | Req Mon INST MAX | 03 - MGD | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 50060 | Chlorine, total residual | 1 - Effluent Gross | 0 | -- | Sample | | | | | | < | 0.01 | < | 0.01 | 19 - mg/L | 0 | 01/01 - Daily 01/07 - Weekly | GR - GRAB GR - GRAB | |
| | | | | | Permit Req. | | | | | | <= | .011 30DA AVG | <= | .019 DAILY MX | 19 - mg/L | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 74055 | Coliform, fecal general | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 15 | = | 25 | 13 - #/100mL | 0 | 01/07 - Weekly 01/07 - Weekly | GR - GRAB GR - GRAB | |
| | | | | | Permit Req. | | | | | | <= | 200 30DA GEO | <= | 400 7 DA GEO | 13 - #/100mL | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 80082 | BOD, carbonaceous, 05 day, 20 C | 1 - Effluent Gross | 0 | -- | Sample | = | 3 | = | 4 | 26 - lb/d | = | 4 | = | 5 | 19 - mg/L | 0 | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS CP - COMPOS | |
| | | | | | Permit Req. | <= | 50 30DA AVG | <= | 100 DAILY MX | 26 - lb/d | <= | 30 30DA AVG | <= | 60 DAILY MX | 19 - mg/L | | | | |
| | | | | | 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 |
| C-HILLSSurgebyps_1062013.pdf | pdf | 20070 |
| 201310_CHWQTC_OverflowReport.pdf | pdf | 71284 |
| CHILLS102013_COVER.pdf | pdf | 17142 |
| CHILLS102013_MOR.pdf | pdf | 24369 |

Report Last Saved By
CHENOWETH HILLS WQTC MSD
 User: wrightd | Date/Time: 2013-11-25 08:06 (Time Zone: -05:00)

Name: Duane Wright

E-Mail: duane.wright@louisvillemsd.org

| Chenoweth Hills | | Report for | | Oct-13 | | Tot. Exc.= 0 | | | | | | |
|------------------------|-------|----------------|-----|---------------|-------|--------------|----------|----------|------------|------|------|------|
| Tot. Flow= 4.81224 | | Concentrations | | Pounds | | | | | | | | |
| Date | Flow | TSS | BOD | NH3 | Fecal | TSS | BOD | NH3 | Tot. Phos. | D.O. | p.H. | TRC |
| 10/1/13 | 0.101 | 3 | 5 | 0.28 | | 2.532775 | 4.221291 | 0.236392 | 3.21 | 8 | 6.4 | 0.01 |
| 10/2/13 | 0.091 | | | | 20 | | | | | 7 | | 0.01 |
| 10/3/13 | 0.102 | | | | | | | | | 7 | | 0.01 |
| 10/4/13 | 0.096 | | | | | | | | | 7 | 6.1 | 0.01 |
| 10/5/13 | 0.320 | | | | | | | | | 7.5 | 6.2 | 0.01 |
| 10/6/13 | 0.832 | | | | | | | | | | 7.3 | 0.01 |
| 10/7/13 | 0.313 | | | | | | | | | | | 0.01 |
| 10/8/13 | 0.159 | | | | | | | | | 7.7 | 7.5 | 0.01 |
| 10/9/13 | 0.136 | | | | | | | | | 7.6 | 7.5 | 0.01 |
| 10/10/13 | 0.118 | 2 | 2 | 0.34 | | 1.960567 | 1.960567 | 0.333296 | 1.71 | 7.4 | 6.3 | 0.01 |
| 10/11/13 | 0.108 | | | | 25 | | | | | 7.6 | 6.6 | 0.01 |
| 10/12/13 | 0.116 | | | | | | | | | 7.2 | 7.1 | 0.01 |
| 10/13/13 | 0.127 | | | | | | | | | 7.4 | 6.8 | 0.01 |
| 10/14/13 | 0.101 | | | | | | | | | 7.9 | 6.8 | 0.01 |
| 10/15/13 | 0.109 | 3 | 4 | 0.5 | | 2.736187 | 3.64825 | 0.456031 | 2.9 | 7.7 | 7 | 0.01 |
| 10/16/13 | 0.103 | | | | 10 | | | | | 7.6 | 6.3 | 0.01 |
| 10/17/13 | 0.106 | | | | | | | | | 7.8 | 6.5 | 0.01 |
| 10/18/13 | 0.087 | | | | | | | | | 7.7 | 6.7 | 0.01 |
| 10/19/13 | 0.131 | | | | | | | | | 7.4 | 6.3 | 0.01 |
| 10/20/13 | 0.134 | | | | | | | | | 7.4 | 6.3 | 0.01 |
| 10/21/13 | 0.103 | | | | | | | | | 8.2 | 6.8 | 0.01 |
| 10/22/13 | 0.114 | 3 | 4 | 0.34 | | 2.842272 | 3.789696 | 0.322124 | 3.11 | 8.5 | 7 | 0.01 |
| 10/23/13 | 0.093 | | | | 10 | | | | | 8.4 | 7 | 0.01 |
| 10/24/13 | 0.102 | | | | | | | | | 8.6 | 6.9 | 0.01 |
| 10/25/13 | 0.097 | | | | | | | | | 8.3 | 7 | 0.01 |
| 10/26/13 | 0.118 | | | | | | | | | 8.6 | 6.6 | 0.01 |
| 10/27/13 | 0.124 | | | | | | | | | 9 | 6.1 | 0.01 |
| 10/28/13 | 0.104 | | | | | | | | | 7.2 | 6.7 | 0.01 |
| 10/29/13 | 0.096 | | | | | | | | | 7.2 | 6.7 | 0.01 |
| 10/30/13 | 0.256 | | | | | | | | | 8.2 | 6.9 | 0.01 |
| 10/31/13 | 0.216 | | | | | | | | | | 7.4 | 0.01 |
| Average | 0.155 | 3 | 4 | 0.4 | 14.95 | 3 | 3.405 | 0.34 | 2.7 | 7.75 | 7 | 0.01 |
| Maximum | 0.832 | 3 | 5 | 0.5 | 25.00 | 3 | 4.221 | 0.5 | 3.2 | 9.00 | 8 | 0.01 |
| Exceed. | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |



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Louisville Kentucky 40203-1911
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October 8, 2013

Mr. Charlie Roth, District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Bypass Report for the Chenoweth Hills WQTC – KPDES Permit KY0029459


Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on October 06, 2013, referencing Work Order 2031261 as a wet 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: On October 6, 2013, due to increased plant flow caused by storm event, the surge tank overflowed, and resulted in a wet weather bypass to the waters of the U.S. Plant aeration was shut off prior to overflow. Approximately 596 gallons overflowed. The design flow to this plant is 0.200 MGD. The peak plant flow during this event was 1.743 MGD. Total plant flow for October 6 was 0.832 MG
- Period of noncompliance: Starting 12:45 PM on October 06, 2013 and stopping 17:43 PM on October 06, 2013.
- Steps taken or planned to reduce, eliminate and prevent recurrence: Plant is scheduled to be eliminated in late 2014 or early 2015. MSD will haul water from the plant if resources allow.

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 duane.wright@louisvillemsd.org.

Sincerely,

Duane V. Wright
Process Supervisor-Operations

cc: Courtney Seiz, KDEP
Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD
eB File





Report Selections: Period: 10/01/2013 00:00 thru 10/31/2013 23:59, treatment Plant: MSD0263 CHENOWETH HILLS, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatment Center | Receiving Stream of Treatment Center | Region |
|-----------|-------------|--------------------------------|--------------------------------------|--------|
| KY0029459 | MSD0263 | CHENOWETH HILLS | CHENOWETH RUN | CENT |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---------------------------|-------------|------------------|--|------------------|--------------|
| SPL Sewer Treatment Plant | MSD0263 | 4305 ST RENE CT | | CHENOWETH RUN | STREAM |

| Activity Code / Description | WO # | Ref No | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|-----------------------------|---------|--------|------------------|--------------|--------------------|--------------|------------|----------------|--------------------------------|-------------------|-----------|
| DISREV:RAIN EVENT DISCHARGE | 2031261 | | 10/6/13 12:45 pm | GREEN | OPS BSHIFT CENTRAL | DOCUMENTED | 09/27/2002 | BYPASS AT WQTC | UNAUTHORIZED DISCHAGE - WATERS | 10/06/13 05:43 PM | |

Discharge Reporting:

| | |
|----------------------|--|
| Discharge Amount: | 596 GAL |
| Cause: | LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT |
| Clean Up: | NO DEBRIS |
| Control Zone: | TEMPORARY SIGNS POSTED |
| Impact: | NO IMPACT OBSERVED |
| Repair: | SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR |
| Public Notification: | TEMPORARY SIGNS POSTED AROUND AFFECTED AREA |

Notifications:

| | | |
|-----------------|--------|---|
| 10/6/13 1:00 pm | DISNOT | Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov' |
| 10/6/13 1:00 pm | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov' |

Total Facilities Printed: 1

Total Work Orders Printed: 1