### 3800-FM-BCW0462 12/2016



### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)

| AME:     | SPRING HILL FARM WWTF ASSN                 |
|----------|--|
| DDRESS:  | PO BOX 756, CHADDS FORD PA, 19317-0522     |
| ACILITY: | SPRINGHILL FARM STP                        |
| OCATION: | 90 SPRINGHILL DRIVE, CHADDS FORD PA, 19342 |
| TAGE:    | Final Effluent                             |

|      | A00522<br>VIT NUI |        |         | OUTF  | 001<br>ALL NU | MBER | Reporting Frequency:<br>DMR Effective From:<br>DMR Effective To; | Monthly<br>12/01/2019<br>12/31/2019 |
|------|-------------------|--------|---------|-------|---------------|------|--|-------------------------------------|
|      |                   | MONITO | ORING I | ERIOD |               |      | Permit Expires:<br>Permit Application Due:                       | 12/31/2020<br>07/04/2020            |
| YEAR | MO                | DAY    |         | YEAR  | MO            | DAY  | No Discharge:  |                                     |

### DADAMETERS REPORTED VALUES

|   |                      | QUA:                       | NTITY OR LOAD                 | DING    | Q              | UANTITY OR CO              | DNCENTRATIC  | N          | SAMPLING FREQUENCY | SAMPLINGTYPE    |  |
|---|----------------------|----------------------------|-------------------------------|---------|----------------|----------------------------|--------------|------------|--------------------|-----------------|--|
| PARAMETER   |                      | VALUE                      | VALUE                         | UNITS   | VALUE          | VALUE                      | VALUE        | UNITS      | OAM ENGTHEADER     |                 |  |
| Desofred Oxygen (00300)                               | Sample Measurement   |                            |                               |         | 6.9            | <del></del> 1              |              | mg/L       | 1/day              | Grab            |  |
|   | Permit Requirement   |                            | ym.                           |         | 50<br>Insi Min |                            | ***          |            | 1/day              | Grab            |  |
| pH (00400)  | Sample Measurement   | • **                       |                               | 141     | 6.9            |                            | 83           | su         | 1/day              | Grafb           |  |
|   | Permit Requirement   |                            |                               |         | 60<br>Inst Min |                            | 9 G<br>IMAX  |            | 1/day              | Grab            |  |
| Total Suspended Solids (00530)                        | Sample Measurement   | 3                          |                               | Belday  |                | 6                          | - ***        | mg/L       | 1/week             | 24-Hr Composite |  |
| ,   | Permit Requirement 1 | 25<br>Avg Mo               |                               |         | ***            | 30<br>Avg Mo               | 110          |            | 1/week             | 24-Hr Composite |  |
| Total Nitropen (00600)                                | Sample Measurement   |                            |                               |         |                | 24.1                       | н.           | mg/L       | 1/week             | 24-Hr Composite |  |
| , , , , , , , , , , , , , , , , , , ,                 | Permit Requirement   |                            | –                             |         | ***            | Monitor & Report<br>Avg Me | ***          |            | 1/week             | 24-Hr Compasite |  |
| Ammoréa-Vitragen (00610)                              | Sample Measurement   | 05                         |                               | lbs/day |                | 1                          |              | mg/L       | \$/week            | 24-Hr Composite |  |
|   | Permit Requirement   | 50<br>Avg Mo               |                               |         |                | 6.0<br>Avg Mo              |              |            | 1/week             | 24-Hr Composite |  |
| Total Phosphorus (00665)                              | Samola Measurement   | 2                          |                               | lbs/day |                | .4                         |              | mg/L       | 1/week             | 24-Hr Composite |  |
|   | Penni Requirement    | 17<br>Avg Mo               |                               |         |                | 2 0<br>Avg Mo              |              |            | 1/week             | 24-Hr Composite |  |
| Flow (50050)  | Sample Measurement   | 05636                      | 07900                         | MGD     |                |                            |              |            | Continuous         | Recorded        |  |
| ,   | Permit Requirement   | Monitor & Report<br>Avg Mo | Monitor & Report<br>Daily Max |         |                |                            |              | 1          | Continuous         | Recorded        |  |
| Total Residual Chlorine (TRC) (50060)                 | Sample Meastrement   |                            | —                             | ***     |                | .05                        | ,10          | mg1L       | 1/day              | Grab            |  |
| , , ,   | Permit Requirement   |                            |                               |         |                | 06<br>Avg Mo               | .14<br>IMAX  |            | 1/day              | Grab            |  |
| Fecal Coliform (74055)                                | Sample Measurement   | <i>,</i>                   |                               |         |                | 6                          | 16           | CFU/100 ml | 1/wesk             | Greb            |  |
| ,   | Permit Requirement   |                            |                               |         |                | 200<br>Avg Ho              | 1000<br>IMAX |            | 1/week             | Grab            |  |
| arbonaceous Biochemical Oxygen Demand (CBODS) (60082) | Sample Measurement   | 2                          |                               | bs/day  |                | 3                          |              | mg/L       | 1/weak             | 24-Hr Composite |  |
|   | Parmit Requirement   | 21<br>Avg Mo               | ***                           |         |                | 25<br>Avg Mo               | .,-          | 1          | 1/week             | 24-Hr Composite |  |

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### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)

### ATTACHMENT DETAILS Attachment Comments Uploaded Time Attachment Type File Name 2020-01-07T13.24 12-05 00 Laboratory Accreditation Form Springhal DMR lab accred December 2019.doc Laboratory Analytical Report Spranghill Lab Analytical Report 12-26-19 pdf 2020-01-10T09:35:39-05:00 2020-01-10709:30 08-05 00 Daily Effluent Monitoring Form Springhill Farm Supp S form December 2019.xts Springhill DEP Cover Ltr. December 2019.doc Cover Letter 2020-01-10709:28 52-05 00 2020-01-10709.31.27-05 00 Soringhill Farm Solids Disposal Form December 2019 xis Leberatory Analytical Report 2020-01-10109:33 05-05:00 2020-01-10709.33.53-05 00 Laboratory Analytical Report Soringhit Lab Analytical Report 12-4-19 pdf Springhit Lab Analytical Report 12-11-19.pdf Laboratory Analytical Report 2020-01-10T09-34 49-05:00 2020-01-07T13.25:08-05:00 Springhill Farm Influent and Process Control Form Decomber 2019 xts Influent and Process Control Form PERMIT VIOLATIONS Sampling Point Cause Of Non-Compliance Non-Compliance ID Event Start Date Event End Date Parameter Limit Type Reported Value Permit Limit Unit UNAUTHORIZED DISCHARGES Dale and Time DEP Notifie Orally Event End Date | Date and Time Discove Event Location Duration (hrs) Receiving Waters Impact On Waters Çause Of Discharge Non-Compliance 1D OTHER PERMIT VIOLATIONS Non-Compliance ID Non-Compliance Type Sampling Point Parameter COMMENT DETAILS Operator Certification Number Comments (484)-844-2175 Stanley J Gober SUBMISSION INFORMATION Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official Information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Bed on your inquisy of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted list, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penaltes, including 18 P.S. section 4904 (relating to unsworn falsilication to authorities). SUBMITTED BY GREENPORT USER DATE TELEPHONE Stan Gober 844-2175 2020 1 10 (484)gobers SUBMITTED BY FULL NAME Мо DAY AREA CODE NUMBER YEAR

### DISCHARGE MONITORING REPORT - SUPPLEMENTAL FORM (S) Month:

November-19

Springhill Farm Wastewater Treatment Facility Association
Springhill Drive
NPDES permit PA 0052230
Gienn Mills, PA 19342
This permit will EXPIRE on December 31, 2020

| Glenn    | Mills, PA 19 |      | This permit                                      | WILEXPIR   | KE ON DE    | ecember  | 31, 2020   |  |          |          |          |              |  |             |  |  |     |      |         |       |           | 7            |
|----------|--------------|------|--|--|-------------|--|--|--|----------|----------|----------|--------------|--|-------------|--|--|-----|------|---------|-------|-----------|--------------|
| Γ        | Influ        | ent  |  |  |             |  |  |  |          |          |          |              | Efflent  |             |  |  |     |      |         |       |           | <del> </del> |
| 5-1-     | BQD5         | TSS  | cBOD5  | cBOD5  | TSS         | TSS  | NH3  | NH3  |          |          | Phos.    | Phos.        | Fecal  | TN          | Cu   | TDS  | ρН  |      | AVG TRC | D.O.  | Eff. Flow | Rainfall     |
| Date     | mg/l         | mg/l | mg/l   | lbs.   | mg/l        | lbs.   | mg/l   | lbs.   |          |          | mg/l     | lbs.         | 100 mi   | mg/L        | mg/L   | mg/L   | su  | mg/l | mg/l    | mg/l  | MGD       | Inches       |
| 1        | *****        |      |  |  |             |  |  |  |          |          |          |              |  |             |  |  | 7.0 | 0.05 | 0,05    | 6.9   | 0.06410   | 0.1          |
| 2        |              |      |  |  |             |  | î d  |  |          |          |          |              |  |             |  |  | 7.2 | 0.02 | 0.02    | 7.5   | 0.04220   | 0.0          |
| 3        |              |      |  |  |             |  |  |  |          |          |          |              |  |             |  |  | 7.0 | 0.05 | 0.05    | 8.6   | 0.04670   | 0.8          |
| 4        |              |      | 3  | 2  | 7           | 5  | 0.1  | 0.06   |          |          | 0.3      | 0,20         | 16   | 24.8        |  |  | 7.4 | 0.10 | 0,09    | 7.4   | 0.07420   | 0.2          |
| 5        |              |      | -  |  |             |  |  |  |          |          |          |              |  |             |  |  | 6.9 | 0.07 | 0,07    | 8.6   | 0.05150   | 0.0          |
| 6        |              |      |  |  |             |  | 1  |  |          |          |          |              |  |             |  |  | 7.3 | 0.10 | 0.08    | 9.4   | 0.05330   | 0.0          |
| 7        |              |      |  |  |             |  | -  |  |          |          |          |              |  |             |  |  | 6.9 | 0.05 | 0.05    | 8.3   | 0.05440   | 0.0          |
| 8        |              |      |  |  |             |  | -  |  |          |          |          |              |  |             |  |  | 7.1 | 0.06 | 0.06    | 9.7   | 0.05760   | 0.1          |
| 9        |              |      |  |  |             |  |  |  |          |          |          |              |  |             | *****  |  | 7.1 | 0.03 | 0,03    | 9.7   | 0.06620   | 1.4          |
| 10       |              |      |  |  |             |  |  |  |          |          |          |              |  |             |  |  | 7.2 | 0.05 | 0,05    | 9.6   | 0.04540   | 1.6          |
| 11       |              |      | 2  | 1  | 5           | 3  | 0.1  | 0.05   |          |          | 0.27     | 0.14         | 7  | 21.0        |  |  | 7.4 | 0.10 | 0,10    | 7.6   | 0,06200   | 0.0          |
| 12       |              |      |  | ————   |             |  |  |  |          |          |          |              |  |             |  |  | 7.2 | 0.06 | 0,06    | 8.9   | 0.04490   | 0.0          |
| 13       |              |      |  |  |             | <del></del>                                      | -  |  |          | **       |          |              |  |             |  |  | 8,3 | 0.06 | 0,06    | 8.3   | 0.05710   | 0.6          |
| 14       |              |      |  |  |             |  |  | $\vdash$   |          |          |          |              |  |             | ···  |  | 7.4 | 0.06 | 0.06    | 8.8   | 0.05800   | 0.0          |
| 15       |              |      |  |  |             | <del> </del>                                     | <del> </del>                                       | <b>—</b>   |          |          |          |              |  |             |  |  | 7.2 | 0.05 | 0.05    | 7.5   | 0.05930   | 0.0          |
| 16       |              |      | <u> </u>   |  |             | <b></b>  | <del> </del>                                       |  |          |          |          |              |  |             |  |  | 7.4 | 0.03 | 0.03    | 7.9   | 0,06880   | 1.5          |
| 17       |              |      |  | <del> </del>   |             | <del> </del>                                     | -  |  |          |          |          |              |  |             |  |  | 7.3 | 0.06 | 0.06    | 9.5   | 0,04490   | 0.0          |
| 18       | 365          | 179  | 3  | 2  | 4           | - 2  | 0.1  | 0.05   |          |          | 0.3      | 0.17         | 3  | 19.0        | <del>                                     </del> |  | 7.1 | 0.07 | 0,07    | 8.5   | 0,06040   | 0.0          |
| 19       | 303          | 119  | <u> </u>   |  | -1          |  | <del>  0.1</del>                                   | 0.00   |          |          | <u> </u> |              | Ť  |             | ·  |  | 7.0 | 0.10 | 0.06    | 9.6   | 0.05900   | 0.0          |
| 20       |              |      |  |  |             | <b></b>  | 1  | _  |          |          |          | ****         |  |             | t====  |  | 7.3 | 0.10 | 0.07    | 9.0   | 0,06200   | 0.0          |
| 21       |              |      | <del>                                     </del> |  |             | <b></b>  | <del> </del>                                       | <del>                                     </del> |          |          |          |              |  |             | <del>                                     </del> |  | 7.0 | 0.09 | 0.09    | 8.5   | 0,07200   | 0.0          |
| 22       |              |      |  |  |             | <b></b>  | <del>                                       </del> | <del>                                     </del> |          |          |          |              |  |             | 1  |  | 7.5 | 0.06 | 0.06    | 8.6   | 0.05890   | 0.0          |
| 23       |              |      |  | <del>                                     </del>   |             | <del> </del>                                     | <del>                                     </del>   | <del>                                     </del> |          |          |          |              |  |             | <del>                                     </del> |  | 7.3 | 0.07 | 0.07    | 9.0   | 0.05450   | 0.0          |
| 24       |              |      |  | <del> </del>   |             | <del> </del>                                     | <del> </del>                                       | <del>                                     </del> |          |          |          |              |  |             | <del>                                     </del> |  | 7.1 | 0.04 | 0.04    | 9.3   | 0,04720   | 0.0          |
|          |              |      |  |  |             | <b></b>  | <del> </del>                                       | $\vdash$   |          |          |          |              | -  |             | <del>                                     </del> |  | 7.0 | 0.02 | 0.02    | 7.8   | 0,04570   | 0.0          |
| 25<br>26 |              |      | 5  | 2  | 7           | 3  | 0.1  | 0.05   |          |          | 0.4      | 0.17         | 3  | 24.7        | <del>                                     </del> |  | 7.1 | 0.01 | 0.01    | 8.6   | 0,05760   | 0.0          |
|          |              |      | 3  |  | <del></del> | <del></del>                                      | 1 0.1  | 0.00   |          |          | 0.1      | <del></del>  | ١  |             |  | <b>——</b>  | 6.9 | 0.02 | 0.02    | 8.6   | 0,05600   | 0.0          |
| 27       |              |      | ļ  |  |             | <del>                                     </del> | <del></del>  | $\vdash$   |          |          |          | <del> </del> | <del>                                     </del> | <del></del> |  | <del>                                     </del> | 7.0 | 0.03 | 0.03    | 8.4   | 0.05130   | 0.0          |
| 28       |              |      | <del></del>                                      | <b>├</b> ──  |             | <u> </u>   | <del>├</del>                                       | -  | <b></b>  | $\vdash$ |          | <del> </del> | <del>                                     </del> |             | <del>                                     </del> | <del>                                     </del> | 7.3 | 0.03 | 0.03    | 8.5   | 0.05680   | 1.0          |
| 29       |              |      | ļ  | <del> </del>   |             | <del>                                     </del> |  | $\vdash$   | <u> </u> |          |          | ├            | ├──  |             | -  | <del>                                     </del> | 6.9 | 0.05 | 0.05    | 8.0   | 0,03620   | 0.3          |
| 30       |              |      |  | <del>                        _     _     _     _     _   _     _     _  </del> |             |  | I  | 0.05   |          | -        | 0.8      | 0.51         | 8  | 31.2        | $\vdash$   | <del></del>                                      | 7.1 | 0.04 | 0.04    | 8,5   | 0,07900   | 0.0          |
| 31       |              |      | 4  | 3  | 6           | 4  | 0.1  | 0.05   | ļ        | $\vdash$ | U.6      | V.51         | ⊢°−  | 91,2        | $\vdash$   | <del> </del>                                     | 6.9 | 3.04 |         | 6.9   | 2.3,000   | +            |
| Min      |              |      |  | ļ  |             | <u> </u>   | ļ  | Ь—   |          |          |          |              | 16   |             | ├─   | <del>                                     </del> | 8.3 | 0,10 |         | 1 0.0 | 0.07900   | +            |
| Max      |              |      |  | ļ  |             | <u> </u>   | <del></del>  | L  |          | UB 4 CA  |          |              |  | 64.4        | THE IT (10)                                      | #DIV/01  | 0.0 | 0.10 | 0.05    | -     | 0.05636   | +_           |
| Avg:     |              |      | 3  | 2  | 6           | 3  | 0.1  | 0.05   | #D[V/01  | #DIV/01  | 0.4      | 0.2          | 6  | ∠4.1        | #DIA101  | #DIA101  | L   |      | 1 0.08  |       | 0,00000   | 1            |

LAB DELCORA Central La In-house? Yes\* pH, O.O., & TRC

Telephone 610-876-5523

Fecal coliform is geometric mean

### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

### SUPPLEMENTAL LABORATORY ACCREDITATION FORM<sup>1</sup>

| Permittee Name: | Springhill Farm Wastewater Treatment Facility Association  Springhill Drive |                          |                                     |           |                |                |                            |           |     |  |  |  |  |
|-----------------|---|--------------------------|-------------------------------------|-----------|----------------|----------------|----------------------------|-----------|-----|--|--|--|--|
|                 | Springhill Dri<br>Glen Mills, P   |                          |                                     | -         |                |                |                            |           |     |  |  |  |  |
|                 | PERMIT N  | IUMBER                   |                                     |           | MONITO<br>Year | RI <b>NG</b> P |                            |           |     |  |  |  |  |
|                 | PA005   | 2230                     | 19                                  | 12        | 01             | то             | 19                         | 12        | 31  |  |  |  |  |
| PARAMETI        | ER  | ANALYSIS METHOD          |                                     | LAB NAN   | 1E             |                | LAB ID NUMBER <sup>2</sup> |           |     |  |  |  |  |
| cBOD5           |   | S5210B-11                |                                     | DELCOR    | Α              |                | 23-00671                   |           |     |  |  |  |  |
| TSS             |   | S2540D-11                |                                     | DELCOR    | <b>!</b> A     |                | 23-00671                   |           |     |  |  |  |  |
| Fecal Colifo    | orm   | Colilert18/Quantitray    |                                     | DELCOR    | :A             |                | 23-00671                   |           |     |  |  |  |  |
| Ammonia Nitr    | ogen  | EPA -350.1/ASTM D6919-03 | DELCORA/ MJ Reider 23-00671/ 06-000 |           |                |                |                            |           |     |  |  |  |  |
| TDS             |   | S2540C-11                | DELCORA 23-00671                    |           |                |                |                            |           |     |  |  |  |  |
| Total Phosph    | orous   | SM-4500-P-E              | DEL                                 | CORA/ M.  | J Reider       |                | 23-00671/06-00003          |           |     |  |  |  |  |
| Dissolved Ox    | ygen  | Meter                    | DELCO                               | RA- Opera | tions Mete     | r              | 23-00671                   |           |     |  |  |  |  |
| TRC & pl        | 1   | Meter                    | DELCO                               | RA- Opera | ntions Mete    | r              | 23-00671                   |           |     |  |  |  |  |
| TKN             |   | HACH 10242/EPA 351.2     | DEL                                 | CORA/ M.  | J Reider       |                | 23-00671/06-00003          |           |     |  |  |  |  |
| Total Copp      | per   | EPA 200.7                | MJ Reider 06-00003                  |           |                |                |                            |           |     |  |  |  |  |
| Total Nitrog    | gen   | Calculation              |                                     | DELCOF    | RA             |                | 2                          | :3-00671  |     |  |  |  |  |
| Nitrite + Nit   | rate  | HACH 10206/SM4500-H+B    | DEI                                 | _CORA/ M  | J Reider       |                | 23-00                      | 371/06-00 | 003 |  |  |  |  |

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 possibly of fine and imprisonment for knowing violations.

| Name/Title Principal Executive Officer | Phone: 610-876-5523   | Signature of Principal Executive Officer or<br>Authorized Agent |
|--|-----------------------|---|
| Michael J. DiSantis, Dir. of O&M       | Date: <u>1/3/2020</u> |   |

<sup>&</sup>lt;sup>1</sup> Submit this form with each Discharge Monitoring Report (DMR), Annual Report or Recordkeeping and Reporting Form, where sample results are submitted to the Department for compliance purposes.

<sup>&</sup>lt;sup>2</sup> For parameter(s) covered under accreditation-by-rule, submit the lab's registration number in lieu of an accreditation number.

### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

### SUPPLEMENTAL LABORATORY ACCREDITATION FORM<sup>1</sup>

| Permittee Name:   | Springhill Far | m Wastewater Treatment Facility | / Association    | <u>n</u>  |                |                    |                    |            |     |  |  |  |  |
|---|----------------|---------------------------------|------------------|-----------|----------------|--------------------|--------------------|------------|-----|--|--|--|--|
| Address:  | Springhill Dri | ve                              |                  |           |                |                    |                    |            |     |  |  |  |  |
|   | Glen Mills, P. | A 19342                         |                  |           |                |                    |                    |            |     |  |  |  |  |
|   |                |                                 |                  |           |                |                    |                    |            |     |  |  |  |  |
| ·   | PERMIT N       | IUMBER                          |                  |           | MONITO<br>Year | RING P<br>/Month/l |                    |            |     |  |  |  |  |
| 100 - | PA005          | 2230                            | 19               | 12        | 01             | то                 | 19                 | 12         | 31  |  |  |  |  |
| PARAMET   | EP             | ANALYSIS METHOD                 |                  | LAB NAN   | IE             |                    | LABI               | D NUMBE    | R²  |  |  |  |  |
| cBOD5   |                | S5210B-11                       |                  | DELCOR    |                |                    | 23-00671           |            |     |  |  |  |  |
| TSS   |                | S2540D-11                       |                  | DELCOR    | Α              |                    | 23-00671           |            |     |  |  |  |  |
| Fecal Colif   | orm            | Colilert18/Quantitray           |                  | DELCOR    | A              |                    | 23-00671           |            |     |  |  |  |  |
| Ammonia Nit   | rogen          | EPA -350.1/ASTM D6919-03        | DEL              | 71/ 06-00 | -00003         |                    |                    |            |     |  |  |  |  |
| TDS   |                | S2540C-11                       |                  | DELCOR    | Α              |                    | 23-00671           |            |     |  |  |  |  |
| Total Phosph  | iorous         | SM-4500-P-E                     | DEL              | .CORA/ M. | Reider         |                    | 23-00671/ 06-00003 |            |     |  |  |  |  |
| Dissolved Ox  | xygen          | Meter                           | DELCO            | RA- Opera | tions Mete     | er                 | 23-00671           |            |     |  |  |  |  |
| TRC & p   | Н              | Meter                           | DELCO            | RA- Opera | tions Mete     | ı                  | 23-00671           |            |     |  |  |  |  |
| TKN   |                | HACH 10242/EPA 351.2            | DEL              | CORA/ M.  | l Reider       |                    | 23-00671/06-00003  |            |     |  |  |  |  |
| Total Cop   | per            | EPA 200.7                       |                  | MJ Reid   | er             |                    | 06-00003           |            |     |  |  |  |  |
| Total Nitro   | gen            | Calculation                     | DELCORA 23-00671 |           |                |                    |                    |            |     |  |  |  |  |
| Nitrite + Ni  | trate          | HACH 10206/SM4500-H+B           | DEL              | _CORA/ M  | J Reider       |                    | 23-00              | 371/ 06-00 | 003 |  |  |  |  |

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 possibly of fine and imprisonment for knowing violations.

Name/Title Principal Executive Officer
Phone: 610-876-5523
Signature of Principal Executive Officer or Authorized Agent

Michael J. DiSantis, Dir. of O&M
Date: 1/3/2020

<sup>&</sup>lt;sup>1</sup> Submit this form with each Discharge Monitoring Report (DMR), Annual Report or Recordkeeping and Reporting Form, where sample results are submitted to the Department for compliance purposes.

<sup>&</sup>lt;sup>2</sup> For parameter(s) covered under accreditation-by-rule, submit the lab's registration number in lieu of an accreditation number.

DEPARTMENT OF ENVIRONMENTAL PROTECTION pennsylvania 800-FM-BPNPSM0438 3/2012

### SUPPLEMENTAL REPORT

## SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Spring Hill Farm STP Chadds Ford Township ა ე Facility Name: Municipality: Watershed:

County: Delaware

PA0052230 Month: December NPDES Permit No.:

Year: 2019

Renewal application due 180 days prior to expiration

This permit will expire on: December 31, 2020

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)

Check here if there were no off-site removal events during the month

| ×  |  | S                                |          |                  |  |          |          |          |  |  |  |  |  |  |  |  |
|--|--|----------------------------------|----------|------------------|--|----------|----------|----------|--|--|--|--|--|--|--|--|
| olide                                    | d On-site  | Dry Ton                          |          |                  |  |          |          |          |  |  |  |  |  | MANAGEMENT THE T   |  |  |
| Cluded/Bios                              | Dewatered and Incinerated On-site                    | % Solids                         |          |                  |  |          |          |          |  |  |  |  |  |  |  |  |
| Course                                   | Seway<br>Dewatered                                   | Tons Dewatered % Solids Dry Tons |          |                  | THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL |          |          |          |  |  | The state of the s |  |  |  |  |  |
| 1. | Biosolids  | Dry Tons                         |          | ALLEANAN PARTY . |  |          |          |          | T. T | ***************************************  | WITH THE PROPERTY OF THE PROPE | - Landers  | Tanana and the same and the sam | The same of the sa | THE PERSON NAMED IN COLUMN NAM | The state of the s |
|  | Dewatered Sewage Studge/Biosolids<br>Hauled Off-site | % Solids                         |          |                  |  |          |          |          |  |  |  |  |  |  |  |  |
|  | Dewatered St   | Tons Dewatered %Solids           |          |                  |  |          |          |          | •  |  |  |  |  |  |  |  |
| 73,77                                    | iosolids   | Dry Tons                         | 0.000    | 0.000            | 0.000  | 0.000    | 0.000    | 0.000    | 0000                                     | <br>THE PROPERTY OF THE PROPERTY O | The state of the s |  |  |  | PARTIES AND ADDRESS AND ADDRES |  |
|  | Liquid Sewage Sludge/Biosolids Handed Off.site       | % Solids                         |          |                  |  |          |          |          |  |  | · · · · · · · · · · · · · · · · · · ·  |  |  |  |  |  |
|  | Liquid Sev   | Gallons                          | 3,600    | 11,800           | 4,600  | 9,200    | 4,600    | 4,600    | 4,600                                    |  |  | The state of the s |  |  |  |  |
|  | Date   | Care                             | 12/11/19 | 12/13/19         | 12/19/19   | 12/20/19 | 12/21/19 | 12/26/19 | 12/28/19                                 |  |  |  |  |  |  |  |

TOTAL:

TOTAL:

... | O | A | ..

# SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION

(Identify all sites where biosolids or ash were disposed or land applied)

| Site Name                          | DELCORA STP  | Goose Creek WW I P  | THE PARTY STATE OF THE PARTY STA |   |
|------------------------------------|--------------|---|--|---|
| Municipality                       | Chester City | Borough of West Chester   | AAAAAAAANTI AAAAAANTI AAAAAANTI AAAAAAANTI AAAAAAAANTI AAAAAAAAAA  | - |
| County                             | Delaware     | Chester   | Andread Andrews Andrew |   |
| DEP Permit No.                     | PA0027103    | PA0027031   | Add a department of the second |   |
| Type of Material*                  | liquid       | . Handard Control of the Control of |  |   |
| Dry Tons Applied/Disposed          |              | ALL   | 1.00.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.  |   |
| Type of Disposal/Use*              | Incineration | Haul Liquid   | ALLEGATIVE CALLEGATIVE CALLEGA |   |
| Hauler Name                        | McGovern     | McGovern  | The state of the s |   |
| * See Instructions for explanation |              |   |  |   |

see instructions for explanation.

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 certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

| Prepared By: Michael J. DiSantis Title: Dir. of Operations and Maintenance |  |
|--|--|
| repared By: 1  |  |

License No.: Date:

T0403 January 3, 2020 2019

Year:

Dennsylvania

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

NT OF ENVIRONMENTAL PROTECTION
Continue Hill Form CTD

Facility Name: Municipality: Watershed:

Springhill Farm STP Chadds Ford Township 3-6

County: Delaware

Month: December

NPDES Permit No.: PA0052230

Renewal application due 180 days prior to expiration.

Kenewal application due 100 days prior to expriation.

This permit will expire on: December 31, 2020

|                 |               |           |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | 1       |       |  |
|-----------------|---------------|-----------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|--|
| Process Control | Sludge Wasted | (gallons) | 1,500.0 | 1,500.0 | 1,500.0 | 2,250.0 | 2,250.0 | 1,950.0  | 1,050.0 | 2,250.0 | 2,250.0 | 2,250.0 | 2,250.0 | 2,250.0 | 4,500.0 | 4,500.0 | 4,500.0 | 2,250.0 | 1,500.0 | 450.0   | 2,250.0 | 2,250.0 | 2,250.0 | 2,250.0 | 2,250.0 | 2,025.0 | 2,250.0 | 2,250.0 | 2,250.0 | 2,625.0 | 2,250.0 | 2,250.0 | 2,250.0 | 2,269 |  |
| P               | Aeration DO   | (mg/l)    | 5.4     | 5.9     | 5.9     | 5.0     | 4.0     | 5.5      | 6.4     | 4.5     | 2.8     | 6.4     | 4.3     | 5.5     | 6.5     | 5.9     | 5.2     | 5.3     | 6.8     | 5.8     | 5.9     | 4.7     | 3.9     | 2.8     | 4.3     | 3.4     | 4.3     | 4.8     | 5.1     | 4.3     | 4.7     | 5.0     | 5.1     | 9     |  |
|                 | Aeration MLSS | (l/gm)    |         | 2,240.0 |         | 2,510.0 |         |          | 2,330.0 |         | 2,740.0 |         | 2,990.0 |         |         | 3,010.0 |         | 2,190.0 |         | 2,860.0 |         |         | 2,720.0 |         | 2,630.0 |         | 2,890.0 |         |         | 2,730.0 |         | 2,910.0 |         | 2,673 |  |
|                 | TSS           | (lbs)     |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         | 06      |         |         |         |         |         |         |         |         |         |         |         |         |         | 06    |  |
|                 | TSS           | (l/gm)    |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         | 179.0   |         |         |         |         |         |         |         |         |         |         |         |         |         | 179   |  |
| Influent        | BODs          | (lps)     |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         | 184     |         |         |         |         |         |         |         |         |         |         |         |         |         | 184   |  |
|                 | BODs          | (mg/l)    |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         | 365.0   |         |         |         |         |         |         |         |         |         |         |         |         |         | 265   |  |
|                 | Flow          | (MGD)     | 0.0641  | 0.0422  | 0.0467  | 0.0747  | 0.0519  | 0.0533   | 0.0544  | 0.0576  | 0.0662  | 0.0454  | 0.062   | 0.0449  | 0.0571  | 0.058   | 0.0593  | 0.0688  | 0.0449  | 0.0604  | 0.059   | 0.00    | 0.072   | 0.0589  | 0.0545  | 0.0472  | 0.0457  | 0.0576  | 0.056   | 0.0513  | 0.0568  | 0.0362  | 0.079   | 3900  |  |
|                 |               | Dav       |         | ~       | (1)     | 4       | rc.     | <u>د</u> | , _     | 00      | 0       | 10      | =       | 12      | 13      | 4       | . 5     | 2 4     | 17      |         | Ó       | 2 2     | 3 5     | 22      | 23      | 24      | 255     | 2 92    | 27      | 3 8     | 2 8     | S (S    | 20      | 31.0  |  |

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 of my knowledge and belief, true, accurate and complete. I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

| Mich     | 2    |
|----------|------|
| d By:    |      |
| Prepared | 17.7 |

Michael J. DiSantis Dir. of Operations and Maintenance

License No.: T0403

Date: 1/3/2020



Laboratory No.: 9043053

Report: 01/06/20

Lab Contact: Bradley T Griffiths

Attention: Michael Krause Reported To: DELCORA

P.O. Box 999

Project Info: Springhill Farm EFF (Weekly)

Chester, PA 19016

Lab ID: 9043053-01

Collected By: Client

Sampled: 12/31/19 07:00

Received: 12/31/19 12:15

Sample Type: Composite

Sample Desc: Springhill Effluent

|                                   | Result | Unit | Rep.<br>Limit | Analysis Method   | Analyzed       | Notes Analyst |
|-----------------------------------|--------|------|---------------|-------------------|----------------|---------------|
| General Chemistry                 |        |      |               |                   |                |               |
| Ammonia as N                      | < 0.10 | mg/l | 0.10          | ASTM D6919-03     | 01/02/20       | APR           |
| Nitrate as N                      | 29.2   | mg/l | 1.00          | EPA 300.0 Rev 2.1 | 12/31/19 13:08 | MRW           |
| Nitrite as N                      | < 0.10 | mg/l | 0.10          | EPA 300.0 Rev 2.1 | 12/31/19 13:08 | MRW           |
| Nitrogen, Total Kjeldahl<br>(TKN) | 1.90   | mg/l | 0.50          | EPA 351.2         | 01/02/20       | SNF           |
| Nitrogen, Total                   | <31,20 | mg/l | 1.60          | CALCULATED        | 01/02/20 14:36 | SNF           |
| Phosphorus as P, Total            | 0.78   | mg/1 | 0.05          | SM 4500-P E       | 01/02/20       | WKH           |

| Specific Method   | Preparation Method | Prep Batch | Prepared Date | Prepared By |
|-------------------|--------------------|------------|---------------|-------------|
| 9043053-01        |                    |            |               |             |
| General Chemistry |                    |            |               |             |
| SM 4500-P E       | SM 4500-P B        | B0A0044    | 01/02/2020    | WKH         |





Collected By :

### M.J. Reider Associates, Inc.

107 Angelica St, Reading PA, 19611 610-374-5129 www.mjreider.com

lient Code: 2639

Project Manager: Bradley T Griffiths

Report To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016 Invoice To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016

### WORK ORDER Chain of Custody

Client: DELCORA

Project: Springhill Farm EFF (Weekly)



Project Notes: Mike Krause - Office (610) 876-5523 x 218 — Cell (610) 633-4002

Comments: Mon-Potable Water Date 12-31-19

9043053-01 Springhill Effluent

Total Nitrogen(TKN, NO2-N, NO3-N), NO2-N EPA 300.0, NO3-N EPA 300.0 NH3-N D6919-03, PO4 (Hach Tubes) SM 4500P-E, TKN EPA 351.2 Matrix: Non-Potable Water
Type: Composite (Simple)

A - Pi 500ml H2SO4 B - Pi 250ml NP Date: 7.00

| Mala Dynam<br>Retinguished By  | 1) - 7) - 14<br>Date/Time   | Received By 8             | 12/3/1        | 5 10:0                      | Sample Kit Prepared By:      | Date/fime           |
|--|---|---------------------------|---------------|-----------------------------|------------------------------|---------------------|
| Relinquished By  | Date/Time   | Received By               | Date/Time     | S 1715                      | Sample Temp (°C):            | <u> </u>            |
| Relinquished By  | Date/Tune   | Received at Laboratory By | Date/Time     | 1 (2)                       | Samples on Ice? Approved By: | (a) No NA           |
| The Client, by signing (or having the client's agent sign), agree to pay for the above requested services including any addition | es to MIRA's Terms and Conditions and<br>al associated fees incurred. | Pa                        | age I of I Pr | inted: 12/10/2019 2:43:36PM | Entered By:                  | mplater Page 2 of 3 |

### **MJRA Terms & Conditions**

All samples submitted must be accompanied by signed documentation representing a Chain of Custody (COC). The COC Record acts as a contract between the client and MJRA. Signing the COC form gives approval for MJRA to perform the requested analyses and is an agreement to pay for the cost of such analyses. COC Records must be completed in black or blue indelible ink (must not run when wet). COC documentation begins at the time of sample collection. Client is required to document all sample details prior to releasing samples to MJRA. All samples must be placed on ice immediately after sampling and shipped or delivered to the laboratory in a manner that will maintain the sample temperature above freezing and below 6C (loose ice is preferred).

### Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (including start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), aloog with blank COCs are provided at no additional cost.

### **Turnaround Times (TAT)**

Average TAT for test results range from 5 to 15 working days depending on the specific analyses and time of year submitted. Faster turnaround times (\*RUSH TAT) may be available depending on the current workload in a particular department and the nature of the analyses requested. We encourage you to verify requests for expedited sample results with one of our Technical Directors prior to sample submittal. Without confirmation from a Technical Director, your results may not be completed by your deadline. \*RUSH TAT Surcharges are applied for expedited turnaround times.

### Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a snapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

### Payment Terms

Payment Terms are Net 30 days. Prices are subject to change without notice. A standing monthly charge of 1.5% of the clients over-30-day-unpaid balance may be added to the balance after 30 days and each month thereafter (day 31, 61, 91 etc.). The laboratory accepts all major credit cards, ACH transactions, checks and cash. New clients must pay for all services rendered prior to sample collection and/or in some cases report processing. Clients must contact the MJRA accounting department to pursue a credit-based account. MJRA reserves the right to terminate the client's credit account and to refuse to perform additional services on a credit basis if any balance is outstanding for more than 60 days.

### Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the

Reviewed and Approved by:

Bradley I. Biffiths

Bradley T Griffiths Project Manager





Laboratory No.: 9039254

Report: 12/10/19

Lab Contact: Bradley T Griffiths

Attention:

Michael Signore

Reported To: DELCORA

P.O. Box 999

Chester, PA 19016

Lab ID: 9039254-01

Collected By: Client

Sampled: 12/04/19 07:50

Project Info: Springhill Farm EFF (Weekly)

Received: 12/04/19 14:39

Sample Type: Composite

| Sample Desc: | Springhill Effluent |
|--------------|---------------------|
|              |                     |

|                                   | Result | Unit | Rep.<br>Limit | Analysis Method   | Analyzed       | Notes Analyst |
|-----------------------------------|--------|------|---------------|-------------------|----------------|---------------|
| General Chemistry                 |        |      |               |                   |                |               |
| Ammonia as N                      | < 0.10 | mg/l | 0.10          | ASTM D6919-03     | 12/05/19       | MRW           |
| Nitrate as N                      | 23.4   | mg/l | 10.0          | EPA 300.0 Rev 2.1 | 12/04/19 20:57 | MRW           |
| Nitrite as N                      | < 0.20 | mg/l | 0.20          | EPA 300.0 Rev 2.1 | 12/04/19 20:40 | MRW           |
| Nitrogen, Total Kjeldahl<br>(TKN) | 1,16   | mg/l | 0.50          | EPA 351,2         | 12/06/19       | SNF           |
| Nitrogen, Total                   | <24.76 | mg/l | 10.7          | CALCULATED        | 12/06/19 11:49 | MRW           |
| Phosphorus as P, Total            | 0.32   | mg/l | 0,05          | SM 4500-P E       | 12/06/19       | WKH           |

| Specific Method   | Preparation Method | Prep Batch | Prepared Date | Prepared By |
|-------------------|--------------------|------------|---------------|-------------|
| 9039254-01        |                    |            | ·             |             |
| General Chemistry |                    |            |               |             |
| SM 4500-P E       | SM 4500-P B        | B9I.0351   | 12/06/2019    | WKH         |





107 Angelica St, Reading PA, 19611 610-374-5129 www.mjreider.com 2639

Project Manager: Bradley T Griffiths

Report To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016 Invoice To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016

### WORK ORDER Chain of Custody

Client: DELCORA Project: Springhill Farm EFF (Weekly)



Project Notes: Mike Krause - Office (610) 876-5523 x 218 --Cell (610) 633-4002

| Collected By: DR CONS   | mntents:  |
|---|---|
| 9039254-01 Springhill Effluent  | Matrix: Non-Potable Water Type: Composite (Simple)  Date: 12-4-19 Time: 07150 |
| Total Nitrogen(TKN, NO2-N, NO3-N), NO2-N EPA 300.0, NO3-N EPA 300.0<br>NH3-N D6919-03, PO4 (Hach Tubes) SM 4500P-E, TKN EPA 351.2 | A - PI 500ml II2SO4<br>B - PI 250ml NP  |

Refinquished By Date/Time Date/Time Relinquished By The Client, by signing (or having the client's agent sign), agrees to MIRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Page 1 of I

Printed: 11/6/2019 2:51:34PM

Sample Kit Prepared By: Date/l'ime Sample Temp (°C): Samples on Ice? Approved By: Entered By: NA

### **MJRA Terms & Conditions**

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### Sample Submission, Sample Acceptance & Sampling Containers

Included on the COC must be the sample description, date and time of collection (iocludiog start and stop for composites), container size and type, preservative information, sample matrix, indication of whether the sample is a grab or composite, number of containers & a list of the tests to be performed. Poor sample collection technique, inappropriate sampling containers and/or improper sample preservation may lead to sample rejection. Suitable sample containers, labels, and preservatives (as applicable), along with blank COCs are provided at no additional cost.

### Turnaround Times (TAT)

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### Analytical Results, Sample Collection Integrity & Subcontracting

Analytical values are for the sample as submitted and relate only to the item tested. The value indicates a soapshot of the constituent content of the sample at the time of sample collection. Analytical results can be impacted by poor sample collection technique and/or improper preservation. All sample collection completed by MJRA was performed in accordance with applicable regulatory protocols or as specified in customer specific sampling plans. Constituent content will vary over time based on the matrix of the sample and the physical and chemical changes to its environment. All sample results and laboratory reports are strictly confidential. Results will not be available to anyone except the primary client or authorized party representing the client unless MJRA receives additional permissions from the client. When necessary, MJRA will subcontract certain analyses to a third party accredited laboratory. If client prohibits subcontracting, it must be provided in writing and include instruction on how to proceed with client samples that require third party analyses.

### **Payment Terms**

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### Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other warranties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, incidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the

Reviewed and Approved by:

Gradley I. Biffiths

Bradley T Griffiths Project Manager





Laboratory No.: 9041615

**Report:** 12/18/19

Lab Contact: Bradley T Griffiths

Attention:

Michael Signore

Reported To: DELCORA

P.O. Box 999

Chester, PA 19016

**Lab ID:** 9041615-01

Collected By: Client

Sampled: 12/11/19 08:00

Project Info: Springhill Farm EFF (Weekly)

Received: 12/11/19 14:05

Sample Desc: Springhill Effluent

Sample Type: Composite

|                                   | Result | Unit | Rep.<br>Limit | Analysis Method   | Analyzed       | Notes Analyst |
|-----------------------------------|--------|------|---------------|-------------------|----------------|---------------|
| General Chemistry                 |        |      |               |                   |                |               |
| Ammonia as N                      | <0.10  | mg/l | 0.10          | ASTM D6919-03     | 12/12/19       | APR           |
| Nitrate as N                      | 19.5   | mg/l | 10.0          | EPA 300.0 Rev 2.1 | 12/11/19 23:55 | MRW           |
| Nitrite as N                      | <0.20  | mg/l | 0,20          | EPA 300.0 Rev 2.1 | 12/11/19 23:38 | MRW           |
| Nitrogen, Total Kjeldahl<br>(TKN) | 1.25   | mg/l | 0.50          | EPA 351.2         | 12/13/19       | SNF           |
| Nitrogen, Total                   | <20.95 | mg/l | 10.7          | CALCULATED        | 12/13/19 9:49  | MRW           |
| Phosphorus as P, Total            | 0.27   | mg/l | 0.05          | SM 4500-P E       | 12/13/19       | WKH           |

| Specific Method   | Preparation Method | Prep Batch | Prepared Date | Prepared By |
|-------------------|--------------------|------------|---------------|-------------|
| 9041615-01        |                    |            |               |             |
| General Chemistry |                    |            |               |             |
| SM 4500-P E       | SM 4500-P B        | B9L0714    | 12/13/2019    | WKH         |





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2639 Client Code:

Project Manager: Bradley T Griffiths

Report To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016 Invoice To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016

### WORK ORDER Chain of Custody

Client: DELCORA

Project: Springhill Farm EFF (Weekly)



Project Notes: Mike Krause - Office (610) 876-5523 x 218 - Cell (610) 633-4002

|               |         | Comments: |
|---------------|---------|-----------|
| Collected By: | Delcora |           |

9041615-01 Springhill Effluent

Total Nitrogen(TKN, NO2-N, NO3-N), NO2-N EPA 300.0, NO3-N EPA 300.0 NH3-N D6919-03, PO4 (Hach Tubes) SM 4500P-E, TKN EPA 351.2

Matrix: Non-Potable Water Type: Composite (Simple)

A - Pl 500ml H2SO4 B - Pl 250ml NP

0800

| Method By the Sym | 12-11-19<br>Date/Fune | Received By W. See        | 17/11/7 1/10 |
|-------------------|-----------------------|---------------------------|--------------|
| Relinquished By   | Date/Time             | Received By               | Date Time    |
| Relinquished By   | Date/Firme            | Received at Laboratory By | Date/Time    |

The Client, by signing (or having the client's agent sign), agrees to MIRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incorred.

Page 1 of 1

Printed: 11/26/2019 1:06:04PM

Sample Kit Prepared By: Date/Time Sample Temp (°C): Samples on Ice? NA Approved By: wn B Entered By: Page 2 of 3

### **MJRA Terms & Conditions**

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### Warranty & Litigation

MJRA does not guarantee any results of its services but has agreed to use its best efforts, in accordance with the standards and practices of the industry, to cause such results to be accurate and complete. We disclaim any other wantanties, expressed or implied, including a warranty of fitness for a particular purpose and warranty of merchantability. Clients agree that they shall reimburse MJRA for any and all fees, cost and litigation expenses, including reasonable attorney fees incurred by MJRA in obtaining payment for the services rendered. All costs associated with compliance with any subpoena for documents, testimony, or any other purpose relating to work performed by MJRA, for a client, shall be paid by that client. MJRA's aggregate liability for negligent acts and omissions and of an intentional breach by MJRA will not exceed the fee paid for the services. Client agrees to indemnify and hold MJRA harmless for any and all liabilities in excess of said amount. Neither MJRA nor the client shall be liable to the other for special, iocidental consequential or punitive liability or damages included but not limited to those arising from delay, loss of use, loss of profits or revenues. MJRA will not be liable to the client unless the client has notified MJRA of the discovery of the alleged negligent act, error, omissions or breach within 30 days of the

Reviewed and Approved by:

Bradley I. Biffiths

Bradley T Griffiths Project Manager





Laboratory No.: 9042146

Report: 12/26/19

Lab Contact: Bradley T Griffiths

Attention:

Michael Signore

Reported To: DELCORA

Project Info: Springhill Farm EFF (Weekly)

P.O. Box 999

Chester, PA 19016

Lab ID: 9042146-01

Collected By: Client

Sampled: 12/18/19 07:30

Received: 12/18/19 14:45

Sample Desc: Springhill Effluent

Sample Type: Composite

|                                   |        |      | Rep.  |                   |                |       |         |
|-----------------------------------|--------|------|-------|-------------------|----------------|-------|---------|
|                                   | Result | Unit | Limit | Analysis Method   | Analyzed       | Notes | Analyst |
| General Chemistry                 |        |      |       |                   |                |       |         |
| Ammonia as N                      | < 0.10 | mg/l | 0.10  | ASTM D6919-03     | 12/19/19       |       | APR     |
| Nitrate as N                      | 18.3   | mg/l | 10.0  | EPA 300.0 Rev 2.1 | 12/18/19 22:29 |       | MRW     |
| Nitrite as N                      | < 0.20 | mg/l | 0.20  | EPA 300.0 Rev 2.1 | 12/18/19 22:13 |       | MRW     |
| Nitrogen, Total Kjeldahl<br>(TKN) | <0.50  | mg/l | 0.50  | EPA 351.2         | 12/19/19       |       | SNF     |
| Nitrogen, Total                   | <19.00 | mg/l | 10.7  | CALCULATED        | 12/19/19 15:44 |       | MRW     |
| Phosphoius as P, Total            | 0.34   | mg/l | 0.05  | SM 4500-P E       | 12/23/19       |       | WKH .   |

| Specific Method   | Preparation Method | Prep Batch | Prepared Date | Prepared By |
|-------------------|--------------------|------------|---------------|-------------|
| 9042146-01        |                    | •          |               |             |
| General Chemistry |                    |            |               |             |
| SM 4500-P E       | SM 4500-P B        | B9L1227    | 12/23/2019    | WKH         |





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Project Managor: Bradley T Griffiths

Report To: DELCORA - Michael Krausc - P.O. Box 999, Chester, PA 19016 Invoice To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016

### WORK ORDER Chain of Custody

Client: DELCORA Project: Springhill Farm EFF (Weekly)



Date/Time

Page 2 of 3

Project Notes: Mike Krause - Office (610) 876-5523 x 218 ... Cell (610) 633-4002

| Collected By : | Delcora         |   |     | Comments;                                   |          |
|----------------|-----------------|---|-----|---|----------|
| 042146-01 Spri | nghill Effluent | m | ~~~ | Matrix: Non-Potable V<br>Type: Composite (S | <br>こってつ |

Total Nitrogen(TKN, NO2-N, NO3-N), NO2-N EPA 300.0, NO3-N EPA 300.0 NH3-N D6919-03, PO4 (Hach Tubes) SM 4500P-E, TKN EPA 351.2

A - Pi 500ml H2SO4 B - Pi 250ml NP

| Matu Ingm  | 12-18-14<br>Date/Time | Received By               | 12/19/19 1055                | Sample Kit Prepared By:      |
|--|-----------------------|---------------------------|------------------------------|------------------------------|
| Relinquished By  | Date/Time             | Received By               | Date/Tibe                    |                              |
|  |                       | Va                        | 12/18/19 1445                | Sample Temp (°C):            |
| Relinquished By  | Date/Time             | Received at Laboratory By | Date/Time                    | Samples on Ice? Approved By: |
| The Client, by signing (or having the client's agent sign), agrees to NURA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred. |                       | Page 1 of 1               | Printed: 12/3/2019 1:53:00PM | Entered By:                  |

### **MJRA Terms & Conditions**

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Reviewed and Approved by:

Twila E Dixon For Bradley T Griffiths

Project Manager





Laboratory No.: 9043857

Report: 01/02/20

Lab Contact: Bradley T Griffiths

Attention: Michael Krause Project Info: Springhill Farm EFF (Weekly)

Reported To: DELCORA

P.O. Box 999 Chester, PA 19016

Lab ID: 9043857-01

Collected By: Client

Sampled: 12/26/19 07:35

Received: 12/26/19 13:20

Sample Type: Composite

Sample Desc: Springhill Effluent

| _                                 | Result | <u>Unit</u> | Rep.<br>Limit <sub>s.</sub> | Analysis Method   | Analyzed       | Notes Analyst |
|-----------------------------------|--------|-------------|-----------------------------|-------------------|----------------|---------------|
| General Chemistry                 |        |             |                             |                   |                |               |
| Ammonia as N                      | < 0.10 | mg/l        | 0.10                        | ASTM D6919-03     | 12/27/19       | APR           |
| Nitrate as N                      | 23.8   | mg/l        | 1,00                        | EPA 300.0 Rev 2.1 | 12/26/19 18:47 | JAF           |
| Nitrite as N                      | <0.10  | mg/l        | 0.10                        | EPA 300.0 Rev 2,1 | 12/26/19 18:47 | JAF           |
| Nitrogen, Total Kjeldahl<br>(TKN) | 0,81   | mg/l        | 0.50                        | EPA 351.2         | 12/31/19       | SNF           |
| Nitrogen, Total                   | <24.71 | mg/l        | 1.60                        | CALCULATED        | 12/31/19 11:19 | SNF           |
| Phosphorus as P, Total            | 0.35   | mg/l        | 0.05                        | SM 4500-P E       | 12/30/19       | RCE           |

| Specific Method   | Preparation Method | Prep Batch | Prepared Date | Prepared By |  |
|-------------------|--------------------|------------|---------------|-------------|--|
| 9043857-01        |                    |            |               |             |  |
| General Chemistry |                    |            |               |             |  |
| SM 4500-P E       | SM 4500-P B        | B9L1512    | 12/30/2019    | RCE         |  |





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2639

Project Manager: Bradley T Griffiths

Report To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016 Invoice To: DELCORA - Michael Krause - P.O. Box 999, Chester, PA 19016

### WORK ORDER **Chain of Custody**

Client: DELCORA

Project: Springhill Farm EFF (Weekly)



Project Notes: Mike Krause - Office (610) 876-5523 x 218 -- Cell (610) 633-4002

| Collected By: Del Cona       | Comments:                 |                |
|------------------------------|---------------------------|----------------|
| , sections,                  |                           |                |
| 43857-01 Springhill Effluent | Matrix: Non-Potable Water | Date: 12-26-19 |

43857-01 Springhill Ethiuent )AF Total Nitrogen(TKN, NO2-N, NO3-N), NO2-N EPA 300.0, NO3-N EPA 300.0 NH3-N D6919-03, PO4 (Hach Tubes) SM 4500P-E, TKN EPA 351.2

Type: Composite (Simple)

A - PI 500ml H2SO4

B - PI 250ml NP

Time: 0735

| Mallan Sygnan<br>Retinguished By   |  | Restrict By                | 12/ec/19 1045                  | Sample Kit Prepared By:      | Date/Fime   |
|--|--|----------------------------|--------------------------------|------------------------------|-------------|
| Refinquished By  | Date/fime ·  | Received By                | Date/Time   1320               | Sample Temp (°C):            |             |
| ReFinquished By  | Date/fine  | Received at Patropatory By | Dato Time Van Bulls            | Samples on Ice? Approved By: | No NA       |
| The Client, by signing (or having the client's agent sign), agree to pay for the above requested services including any additional | to MJRA's Terms and Conditions and associated fees incurred. | Page 1 of 1                | Printed: 12/17/2019 12:40:18PM | Entered By:                  | Page 2 of 3 |

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Reviewed and Approved by:

Bradley I. Buffiths

Bradley T Griffiths Project Manager

