

Report Number  
F18152-6003  
Account Number



3505 Conestoga Dr.  
Fort Wayne, IN 46808  
260.483.4759  
algreatlakes.com

To: MCLANAHAN CORP  
200 WALL STREET  
HOLLIDAYSBURG, PA 16648-0000

For:

Attn:

Lab Number: 99458  
Sample ID: INFEED  
Manure Type: DAIRY, LIQUID PIT (20)

Date Sampled: 5/30/2018  
Date Received: 6/1/2018  
Date Reported: 6/4/2018

### MANURE ANALYSIS

| Analysis                                | Unit | Analysis Result<br>(As Received) | Pounds Per<br>1,000 Gal **              | First Year Availability @<br>Pounds Per 1,000 Gal |
|---|------|----------------------------------|---|---|
| Moisture                                | %    | 96.74                            | 8058                                    |   |
| Solids                                  | %    | 3.26                             | 272                                     |   |
| Nitrogen, Total (TKN)                   | %    | 0.216                            | 18.0                                    | 13.0 *  |
| Nitrogen, Ammonium (NH <sub>4</sub> -N) | %    | 0.130                            | 10.8                                    | 10.8 *  |
| Nitrogen, Organic (N)                   | %    | 0.086                            | 7.2                                     | 2.2 *   |
| Phosphorus (P)                          | %    | 0.040                            | 7.6 (as P <sub>2</sub> O <sub>5</sub> ) | 7.6 * (as P <sub>2</sub> O <sub>5</sub> )         |
| Potassium (K)                           | %    | 0.158                            | 15.8 (as K <sub>2</sub> O)              | 15.8 * (as K <sub>2</sub> O)                      |

@ Estimate of first-year availability does not account for incorporation losses. Consult MWPS-18, "Livestock Waste Facilities Handbook" for additional information.  
\* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993 # Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin  
\*\* Manure density assumed to be 8.33 lb/gallon

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To: MCLANAHAN CORP  
200 WALL STREET  
HOLLIDAYSBURG, PA 16648-0000

For:

Attn:

Lab Number: 99457  
Sample ID: ROLL PRESS SOLIDS  
Manure Type: DAIRY, LIQUID PIT (20)

Date Sampled: 5/30/2018  
Date Received: 6/1/2018  
Date Reported: 6/4/2018

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### MANURE ANALYSIS

| Analysis                                | Unit | Analysis Result<br>(As Received) | Pounds Per<br>1,000 Gal **              | First Year Availability @<br>Pounds Per 1,000 Gal |
|---|------|----------------------------------|---|---|
| Moisture                                | %    | 80.28                            | 6687                                    |   |
| Solids                                  | %    | 19.72                            | 1643                                    |   |
| Nitrogen, Total (TKN)                   | %    | 0.328                            | 27.3                                    | 10.5 *  |
| Nitrogen, Ammonium (NH <sub>4</sub> -N) | %    | 0.040                            | 3.3                                     | 3.3 *   |
| Nitrogen, Organic (N)                   | %    | 0.288                            | 24.0                                    | 7.2 *   |
| Phosphorus (P)                          | %    | 0.036                            | 6.9 (as P <sub>2</sub> O <sub>5</sub> ) | 6.9 * (as P <sub>2</sub> O <sub>5</sub> )         |
| Potassium (K)                           | %    | 0.167                            | 16.7 (as K <sub>2</sub> O)              | 16.7 * (as K <sub>2</sub> O)                      |

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\* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993 # Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin

\*\* Manure density assumed to be 8.33 lb/gallon

Report Approved By:   
David Henry - Agronomist / Technical Services - CCA

Approval Date: 6/04/2018

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To: MCLANAHAN CORP  
200 WALL STREET  
HOLLIDAYSBURG, PA 16648-0000

For:

Attn:

Lab Number: 99460  
Sample ID: ROTARY SCREEN LIQUID  
Manure Type: DAIRY, LIQUID PIT (20)

Date Sampled: 5/30/2018  
Date Received: 6/1/2018  
Date Reported: 6/4/2018

### MANURE ANALYSIS

| Analysis                                | Unit | Analysis Result<br>(As Received) | Pounds Per<br>1,000 Gal **              | First Year Availability @<br>Pounds Per 1,000 Gal |
|---|------|----------------------------------|---|---|
| Moisture                                | %    | 96.49                            | 8038                                    |   |
| Solids                                  | %    | 3.51                             | 292                                     |   |
| Nitrogen, Total (TKN)                   | %    | 0.221                            | 18.4                                    | 13.1 *  |
| Nitrogen, Ammonium (NH <sub>4</sub> -N) | %    | 0.130                            | 10.8                                    | 10.8 *  |
| Nitrogen, Organic (N)                   | %    | 0.091                            | 7.6                                     | 2.3 *   |
| Phosphorus (P)                          | %    | 0.045                            | 8.7 (as P <sub>2</sub> O <sub>5</sub> ) | 8.7 * (as P <sub>2</sub> O <sub>5</sub> )         |
| Potassium (K)                           | %    | 0.166                            | 16.6 (as K <sub>2</sub> O)              | 16.6 * (as K <sub>2</sub> O)                      |

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\* Source: MWPS-18, Livestock Waste Facilities Handbook, 1993 # Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin  
\*\* Manure density assumed to be 8.33 lb/gallon

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To: MCLANAHAN CORP  
200 WALL STREET  
HOLLIDAYSBURG, PA 16648-0000

For:

Attn:

Lab Number: 99459  
Sample ID: ROTARY SCREEN SOLIDS  
Manure Type: DAIRY, LIQUID PIT (20)

Date Sampled: 5/30/2018  
Date Received: 6/1/2018  
Date Reported: 6/4/2018

### MANURE ANALYSIS

| Analysis                                | Unit | Analysis Result<br>(As Received) | Pounds Per<br>1,000 Gal **              | First Year Availability @<br>Pounds Per 1,000 Gal |
|---|------|----------------------------------|---|---|
| Moisture                                | %    | 88.40                            | 7364                                    |   |
| Solids                                  | %    | 11.60                            | 966                                     |   |
| Nitrogen, Total (TKN)                   | %    | 0.237                            | 19.7                                    | 11.2 *  |
| Nitrogen, Ammonium (NH <sub>4</sub> -N) | %    | 0.090                            | 7.5                                     | 7.5 *   |
| Nitrogen, Organic (N)                   | %    | 0.147                            | 12.2                                    | 3.7 *   |
| Phosphorus (P)                          | %    | 0.028                            | 5.3 (as P <sub>2</sub> O <sub>5</sub> ) | 5.3 * (as P <sub>2</sub> O <sub>5</sub> )         |
| Potassium (K)                           | %    | 0.118                            | 11.8 (as K <sub>2</sub> O)              | 11.8 * (as K <sub>2</sub> O)                      |

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\*\* Manure density assumed to be 8.33 lb/gallon