



To: LOUDOUN COMPOSTING, LLC  
 P O BOX 221975  
 CHANTILLY, VA 20153-1975

For: E408  
 STA

Report Number: F16040-6005  
 Account Number: 52501

Attn: TIM HUTCHINSON  
 Sample ID: E408  
 Lab Number: 83807

**COMPOST ANALYSIS**

Date Sampled: 2/8/2016  
 Date Received: 2/9/2016  
 Date Reported: 2/22/2016 Page: 1 of 3

| Analysis                                   | Unit  | Analysis Result | Dry Basis Result | Analysis Method     |
|--|-------|-----------------|------------------|---------------------|
| Moisture @ 70 C                            | %     | 54.09           |                  | TMECC 03.09-A       |
| Solids                                     | %     | 45.91           |                  | TMECC 03.09-A       |
| Total Nitrogen (N)                         | %     | 0.75            | 1.64             | TMECC 04.02-D       |
| Phosphorus (P)                             | %     | 0.10            | 0.21             | TMECC 04.03-A       |
| Phosphate (P <sub>2</sub> O <sub>5</sub> ) | %     | 0.22            | 0.48             | TMECC 04.03-A       |
| Potassium (K)                              | %     | 0.50            | 1.09             | TMECC 04.04-A       |
| Potash (K <sub>2</sub> O)                  | %     | 0.60            | 1.31             | TMECC 04.04-A       |
| Magnesium (Mg)                             | %     | 0.26            | 0.56             | TMECC 04.05-MG      |
| Calcium (Ca)                               | %     | 1.12            | 2.45             | TMECC 04.05-B       |
| Iron (Fe)                                  | %     | 0.86            | 1.88             | TMECC 04.05-FE      |
| Arsenic                                    | mg/kg | 2.97            | 6.46             | SW846-6020 04.06-As |
| Cadmium                                    | mg/kg | <0.227          | < 0.494          | SW846-6020 04.06-Cd |
| Chromium                                   | mg/kg | 14.0            | 30.4             | SW846-6020 04.06-Cr |
| Copper                                     | mg/kg | 28.7            | 62.6             | SW846-6020 04.06-Cu |
| Mercury                                    | mg/kg | <0.268          | < 0.584          | SW846-6020 04.06-Hg |

TMECC - Test Methods for the Examination of Composting and Compost (TMECC), The U.S. Composting Council.

Report Approved By:

Greg Neyman - Vice President / COO

Approval Date:

2/22/2016



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|----------------------------------|-------------------|-----------------|------------------|----------------------------|
| Molybdenum                       | mg/kg             | 1.33            | 2.90             | SW846-6020 04.06-Mo        |
| Nickel                           | mg/kg             | 5.0             | 11.0             | SW846-6020 04.06-Ni        |
| Lead                             | mg/kg             | 6.5             | 14.1             | SW846-6020 04.06-Pb        |
| Selenium                         | mg/kg             | 0.77            | 1.67             | SW846-6020 04.06-Se        |
| Zinc                             | mg/kg             | 52              | 113              | SW846-6020 04.06-Zn        |
| 503 Metals PASS/FAIL             | pass/fail         |                 | PASS             | EPA 503 Metal Limits       |
| pH                               | -                 | 7.6             |                  | TMECC 04.11-A              |
| Soluble Salts                    | ds/m              | 2.06            |                  | TMECC 04.10-A              |
| Fecal Coliform/MPN               | MPN/g dry         |                 | < 2              | SM(20th)-9221E TMECC       |
| Pathogen Reduction - PASS/FAIL   | pass/fail         |                 | PASS             | 40 CFR 503 Class A Compost |
| Ash @ 550 C                      | %                 | 24.75           | 53.90            | TMECC 03.02-B              |
| Organic Matter (LOI @ 550 C)     | %                 | 21.16           | 46.10            | TMECC 05.07-A              |
| Total Organic Carbon (C)         | %                 | 10.58           | 23.05            | TMECC 04.01-A              |
| Carbon:Nitrogen Ratio (C:N)      | -                 | 14.1:1          | 14.1:1           | TMECC 05.02-A              |
| Bulk Density - As Received Basis | g/cm <sup>3</sup> | 0.67            |                  | TMECC 03.01-A              |



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|---------------------------------|---------------------|-----------------|------------------|-----------------|
| Bulk Density - Dry Basis        | g/cm3               |                 | 0.31             | TMECC 03.01-A   |
| Foreign Material                | %                   |                 | 0.08             | TMECC 03.08-A   |
| Germination - Emergence         | %                   | 94              |                  | TMECC 05.05-A   |
| Germination - Vigor             | %                   | 94              |                  | TMECC 05.05-A   |
| Ave Ht of Seedlings in Control  | inches              | 3.9             |                  | TMECC 05.05-A   |
| Ave Ht of Seedlings in Compost  | inches              | 4.4             |                  | TMECC 05.05-A   |
| Respiration - CO2-C/g TS        | mg CO2-C / g TS/Day |                 | 1                | TMECC 05.08-B   |
| Respiration - CO2-C/g OM        | mg CO2-C / g OM/Day |                 | 1                | TMECC 05.08-B   |
| Compost Stability Index         | -                   |                 | Very Stable      | TMECC 05.08     |
| Retained on U.S. 2-inch Sieve   | %                   |                 | 0.00             | TMECC 02.02-B   |
| Retained on U.S. 1-inch Sieve   | %                   |                 | 0.00             | TMECC 02.02-B   |
| Retained on U.S. 5/8-inch Sieve | %                   |                 | 0.00             | TMECC 02.02-B   |
| Retained on U.S. 3/8-inch Sieve | %                   |                 | 3.77             | TMECC 02.02-B   |
| Retained on U.S. 1/4-inch Sieve | %                   |                 | 12.49            | TMECC 02.02-B   |
| Retained on U.S. 5/32-inch      | %                   |                 | 16.86            | TMECC 02.02-B   |