



**US COMPOSTING  
COUNCIL**

*Seal of Testing  
Assurance*

**Loudoun Composting LLC**

Tim Hutchinson  
44150 Wade Dr  
Chantilly VA 20152-1347  
703-327-8428

Product Name: **CSX1**

Sample Date: **4/3/08 9:45 AM**

A & L Lab Number: **40277**

A & L Report Number: **F08095-6010**

**COMPOST TECHNICAL DATA SHEET**

**A & L Great Lakes Laboratories, Inc. 3505 Conestoga Drive Fort Wayne IN 46808**

| <i>Compost Parameters</i>                                     | <i>Method</i>  | <i>Reported as (units of measure)</i>                                    | <i>Test Results</i> | <i>Test Results</i>    |
|---|----------------|--|---------------------|------------------------|
| Plant Nutrients:  |                | %, weight basis  | %, wet weight basis | %, dry weight basis    |
| Nitrogen  | TMECC 04.02-D  | Total N  | 0.82                | 1.73                   |
| Phosphorus  | TMECC 04.03-A  | P <sub>2</sub> O <sub>5</sub>  | 0.24                | 0.51                   |
| Potassium   | TMECC 04.04-A  | K <sub>2</sub> O   | 0.69                | 1.44                   |
| Calcium   | TMECC 04.05-CA | Ca   | 1.17                | 2.45                   |
| Magnesium   | TMECC 04.05-MG | Mg   | 0.27                | 0.57                   |
| Moisture Content  | TMECC 03.09-A  | %, wet weight basis  | 52.34               |                        |
| Organic Matter Content  | TMECC 05.07-A  | %, dry weight basis  | 44.04               |                        |
| pH  | TMECC 04.11-A  | pH units   | 7.2                 |                        |
| Soluble Salts <i>(electrical conductivity EC<sub>s</sub>)</i> | TMECC 04.10-A  | dS/m (mmhos/cm)  | 3.58                |                        |
| Particle Size   | TMECC 02.02-B  | % < 9.5 mm (3/8 in.), dw basis   | 99.42               |                        |
| Stability Indicator <i>(respirometry)</i>                     |                |  | Stability Rating:   |                        |
| CO <sub>2</sub> Evolution                                     |                | mg CO <sub>2</sub> -C/g OM/day   | 1                   | Very Stable            |
|   |                | mg CO <sub>2</sub> -C/g TS/day   | 1                   |                        |
| Maturity Indicator (bioassay)                                 |                |  |                     |                        |
| Percent Emergence   | TMECC 05.05-A  | average % of control   | 97                  |                        |
| Relative Seedling Vigor                                       | TMECC 05.05-A  | average % of control   | 93                  |                        |
| Select Pathogens  | TMECC 07.01-B  | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)               | PASS                | <i>Fecal Coliform</i>  |
| Trace Metals  | TMECC 04.06    | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3. | PASS                | <i>As, Cd, Pb, Hg,</i> |
|   |                |  |                     | <i>Mo, Ni, Se, Zn</i>  |

*Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.*



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|---|---------------|--|--------------------------|------------------------|
| Plant Nutrients:  |               | %, weight basis  | Not Reported             |                        |
| Moisture Content  | TMECC 03.09-A | %, wet weight basis  | 52.34                    |                        |
| Organic Matter Content  | TMECC 05.07-A | %, dry weight basis  | 44.04                    |                        |
| pH  | TMECC 04.11-A | pH units   | 7.2                      |                        |
| Soluble Salts <i>(electrical conductivity EC<sub>5</sub>)</i> | TMECC 04.10-A | dS/m (mmhos/cm)  | 3.58                     |                        |
| Particle Size   | TMECC 02.02-B | % < 9.5 mm (3/8 in.), dw basis                             | 99.42                    |                        |
| <i>Stability Indicator (respirometry)</i>                     |               |  | <i>Stability Rating:</i> |                        |
| CO <sub>2</sub> Evolution                                     |               | mg CO <sub>2</sub> -C/g OM/day                             | 1                        | Very Stable            |
|   |               | mg CO <sub>2</sub> -C/g TS/day                             | 1                        |                        |
| <i>Maturity Indicator (bioassay)</i>                          |               |  |                          |                        |
| Percent Emergence   | TMECC 05.05-A | average % of control                                       | 97                       |                        |
| Relative Seedling Vigor                                       | TMECC 05.05-A | average % of control                                       | 93                       |                        |
| Select Pathogens  | TMECC 07.01-B | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a) | PASS                     | <i>Fecal Coliform</i>  |
| Trace Metals  | TMECC 04.06   | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13,   | PASS                     | <i>As, Cd, Pb, Hg,</i> |
|   |               |  |                          | <i>Mo, Ni, Se, Zn</i>  |

*Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of*

REPORT NO.  
F08095-6010  
ACCOUNT NUMBER  
52501

# A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, IN 46808 • Phone 260-483-4759 • Fax 260-483-5274  
www.algreatlakes.com • lab@algreatlakes.com



**QUALITY ANALYSES FOR INFORMED DECISIONS**

TO: LOUDOUN COMPOSTING, LLC  
44150 WADE DR.  
CHANTILLY, VA 20152-1347

FOR: CSX1

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 40277  
SAMPLE ID: CSX1

## COMPOST ANALYSIS REPORT

DATE SAMPLED: 04/03/2008

DATE RECEIVED: 04/04/2008

DATE REPORTED: 04/18/2008

PAGE: 1

| PARAMETER          | UNIT  | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD     |
|--------------------|-------|-----------------|------------------|---------------------|
| Moisture @ 70 C    | %     | 52.34           |                  | TMECC 03.09-A       |
| Dry Matter         | %     | 47.66           |                  | TMECC 03.09-A       |
| Total Nitrogen (N) | %     | 0.82            | 1.73             | TMECC 04.02-D       |
| Phosphorus (P)     | %     | 0.10            | 0.22             | TMECC 04.03-A       |
| Phosphate (P205)   | %     | 0.24            | 0.51             | TMECC 04.03-A       |
| Potassium (K)      | %     | 0.57            | 1.20             | TMECC 04.04-A       |
| Potash (K2O)       | %     | 0.69            | 1.44             | TMECC 04.04-A       |
| Magnesium (Mg)     | %     | 0.27            | 0.57             | TMECC 04.05-MG      |
| Calcium (Ca)       | %     | 1.17            | 2.45             | TMECC 04.05-CA      |
| Iron (Fe)          | %     | 0.55            | 1.16             | TMECC 04.05-FE      |
| Arsenic            | mg/kg | 4.833           | 10.141           | SW846-6020 04.06-As |
| Cadmium            | mg/kg | 0.21            | 0.45             | SW846-6020 04.06-Cd |
| Chromium           | mg/kg | 14.07           | 29.53            | SW846-6020 04.06-Cr |
| Copper             | mg/kg | 28.16           | 59.08            | SW846-6020 04.06-Cu |
| Mercury            | mg/kg | <0.00           | < 0.01           | SW846-6020 04.06-Hg |
| Molybdenum         | mg/kg | 0.54            | 1.13             | SW846-6020 04.06-Mo |
| Nickel             | mg/kg | 5.77            | 12.10            | SW846-6020 04.06-Ni |

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| PARAMETER                             | UNIT                             | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD      |
|---------------------------------------|----------------------------------|-----------------|------------------|----------------------|
| Lead                                  | mg/kg                            | 10.59           | 22.23            | SW846-6020 04.06-Pb  |
| Selenium                              | mg/kg                            | <0.000          | < 0.001          | SW846-6020 04.06-Se  |
| Zinc                                  | mg/kg                            | 61.59           | 129.23           | SW846-6020 04.06-Zn  |
| pH                                    | -                                | 7.2             |                  | TMECC 04.11-A        |
| Soluble Salts                         | dS/m                             | 3.58            |                  | TMECC 04.10-A        |
| Fecal Coliform/MPN                    | MPN/g dry                        |                 | 0                | SM(20th)-9221E TMECC |
| Organic Matter by LOI @ 550C          | %                                | 20.99           | 44.04            | TMECC 05.07-A        |
| Organic Carbon by LOI @ 550C          | %                                | 10.49           | 22.02            | Estimated            |
| Carbon:Nitrogen Ratio (C:N)           | -                                | 12.7:1          | 12.7:1           | TMECC 05.02-A        |
| Germination - Emergence               | %                                | 97              |                  | TMECC 05.05-A        |
| Germination - Vigor                   | %                                | 93              |                  | TMECC 05.05-A        |
| Ave Ht of Seedlings in Control        | inches                           | 3.6             |                  | TMECC 05.05-A        |
| Ave Ht of Seedlings in Compost        | inches                           | 4.3             |                  | TMECC 05.05-A        |
| Respiration - CO <sub>2</sub> -C/g TS | mg CO <sub>2</sub> -C / g TS/Day |                 | 1                | TMECC 05.08-B        |
| Respiration - CO <sub>2</sub> -C/g OM | mg CO <sub>2</sub> -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        |

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| PARAMETER                     | UNIT | ANALYSIS RESULT | DRY BASIS RESULT | ANALYSIS METHOD |
|-------------------------------|------|-----------------|------------------|-----------------|
| Retained on U.S. 1-inch Sieve | %    |                 | 0.00             | TMECC 02.02-B   |
| Retained on U.S. 5/8-inch     | %    |                 | 0.00             | TMECC 02.02-B   |
| Retained on U.S. 3/8-inch     | %    |                 | 0.58             | TMECC 02.02-B   |
| Retained on U.S. 1/4-inch     | %    |                 | 4.62             | TMECC 02.02-B   |
| Retained on U.S. 5/32-inch    | %    |                 | 13.63            | TMECC 02.02-B   |