

REPORT NO.  
F14087-6013  
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: TIM HUTCHINSON

COPY: AL RATTIE/J DAVIS

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 71026  
SAMPLE ID: XXI

## COMPOST ANALYSIS REPORT

DATE SAMPLED: 03/27/2014

DATE RECEIVED: 03/28/2014

DATE REPORTED: 04/16/2014 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	59.90		TMECC 03.09-A
Dry Matter	%	40.10		TMECC 03.09-A
Total Nitrogen (N)	%	0.63	1.58	TMECC 04.02-D
Phosphorus (P)	%	0.08	0.19	TMECC 04.03-A
Phosphate (P205)	%	0.18	0.44	TMECC 04.03-A
Potassium (K)	%	0.46	1.15	TMECC 04.04-A
Potash (K2O)	%	0.55	1.38	TMECC 04.04-A
Magnesium (Mg)	%	0.19	0.47	TMECC 04.05-MG
Calcium (Ca)	%	0.98	2.44	TMECC 04.05-B
Iron (Fe)	%	0.41	1.03	TMECC 04.05-FE
Arsenic	mg/kg	1.01	2.53	SW846-6020 04.06-As
Cadmium	mg/kg	0.93	2.31	SW846-6020 04.06-Cd
Chromium	mg/kg	14.9	37.2	SW846-6020 04.06-Cr

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

Report Approved By:

Greg Neyman - Vice President / COO

Approval Date: 4/16/2014

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Copper	mg/kg	107	267	SW846-6020 04.06-Cu
Mercury	mg/kg	<0.238	< 0.593	SW846-6020 04.06-Hg
Molybdenum	mg/kg	1.39	3.46	SW846-6020 04.06-Mo
Nickel	mg/kg	11.3	28.2	SW846-6020 04.06-Ni
Lead	mg/kg	44	109	SW846-6020 04.06-Pb
Selenium	mg/kg	<0.47	< 1.17	SW846-6020 04.06-Se
Zinc	mg/kg	217	540	SW846-6020 04.06-Zn
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	7.3		TMECC 04.11-A
Soluble Salts	dS/m	2.24		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Pathogen Reduction - PASS/FAIL	pass/fail		PASS	40 CFR 503 Class A
Ash @ 550 C	%	16.55	41.27	TMECC 03.02-B

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Organic Matter by LOI @ 550C	%	23.55	58.73	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	11.77	29.36	Estimated
Carbon:Nitrogen Ratio (C:N)	-	18.6:1	18.6:1	TMECC 05.02-A
Foreign Material	%		0.08	TMECC 03.08-A
Germination - Emergence	%	97		TMECC 05.05-A
Germination - Vigor	%	97		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	3.8		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	4.4		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
Retained on U.S. 1-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. 5/8-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 3/8-inch Sieve	%		1.31	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		12.15	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		16.01	TMECC 02.02-B



**Loudoun Composting LLC**

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

Product Name: XXI

Sample Date: 3/27/14 11:00 AM

Receive Date: 03/28/14

A & L Lab Number: 71026

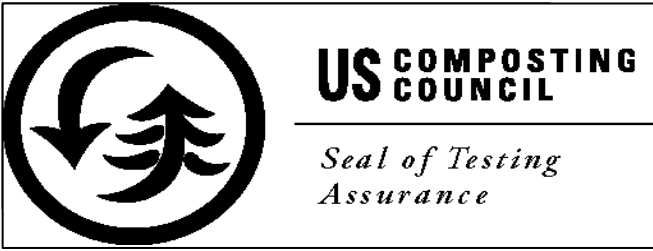
A & L Report Number: F14087-6013

**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	0.63	1.58
Phosphorus	TMECC 04.03-A	P <sub>2</sub> O <sub>5</sub>	0.18	0.44
Potassium	TMECC 04.04-A	K <sub>2</sub> O	0.55	1.38
Calcium	TMECC 04.05-CA	Ca	0.98	2.44
Magnesium	TMECC 04.05-MG	Mg	0.19	0.47
Moisture Content	TMECC 03.09-A	%, wet weight basis	59.90	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	58.73	
pH	TMECC 04.11-A	pH units	7.3	
Soluble Salts ( <i>electrical conductivity EC<sub>5</sub></i> )	TMECC 04.10-A	dS/m (mmhos/cm)	2.24	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	98.69	
Stability Indicator ( <i>respirometry</i> )			<i>Stability Rating:</i>	
CO <sub>2</sub> Evolution	TMECC 05.08-B	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	97	
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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Compost Parameters	Method	Reported as (units of measure)	Test Results	
Plant Nutrients:		%, weight basis	Not Reported	
Moisture Content	TMECC 03.09-A	%, wet weight basis	59.90	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	58.73	
pH	TMECC 04.11-A	pH units	7.3	
Soluble Salts (electrical conductivity EC <sub>5</sub> )	TMECC 04.10-A	dS/m (mmhos/cm)	2.24	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	98.69	
Stability Indicator (respirometry)			Stability Rating:	
CO <sub>2</sub> Evolution	TMECC 05.08-B	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	97	
Select Pathogens	TMECC 07.01-B	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS	Fecal Coliform
Trace Metals	TMECC 04.06	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13,	PASS	As, Cd, Pb, Hg, Mo, Ni, Se, Zn

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.



**US Composting Council Certified**  
This product meets or exceeds the parameters of the Acceptable Range of compost characteristics contained in the USCC's Consumer Compost Use Program