

REPORT NO.
F14346-6011
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
P O BOX 221975
CHANTILLY, VA 20153

FOR: D414

COPY: AL RATTIE/J DAVIS

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 76345
SAMPLE ID: D414

COMPOST ANALYSIS REPORT

DATE SAMPLED: 12/11/2014
DATE RECEIVED: 12/12/2014
DATE REPORTED: 01/12/2015 PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	59.32		TMECC 03.09-A
Dry Matter	%	40.68		TMECC 03.09-A
Total Nitrogen (N)	%	0.69	1.69	TMECC 04.02-D
Phosphorus (P)	%	0.09	0.21	TMECC 04.03-A
Phosphate (P205)	%	0.20	0.48	TMECC 04.03-A
Potassium (K)	%	0.13	0.32	TMECC 04.04-A
Potash (K2O)	%	0.16	0.38	TMECC 04.04-A
Magnesium (Mg)	%	0.04	0.10	TMECC 04.05-MG
Calcium (Ca)	%	0.18	0.44	TMECC 04.05-B
Iron (Fe)	%	0.03	0.07	TMECC 04.05-FE
Arsenic	mg/kg	1.95	4.79	SW846-6020 04.06-As
Cadmium	mg/kg	<0.198	< 0.486	SW846-6020 04.06-Cd
Chromium	mg/kg	10.2	25.0	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: 1/12/2015

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Copper	mg/kg	18.1	44.5	SW846-6020 04.06-Cu
Mercury	mg/kg	<0.234	< 0.575	SW846-6020 04.06-Hg
Molybdenum	mg/kg	0.91	2.23	SW846-6020 04.06-Mo
Nickel	mg/kg	3.16	7.78	SW846-6020 04.06-Ni
Lead	mg/kg	4.4	10.8	SW846-6020 04.06-Pb
Selenium	mg/kg	<0.46	< 1.13	SW846-6020 04.06-Se
Zinc	mg/kg	38.5	94.7	SW846-6020 04.06-Zn
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	8.0		TMECC 04.11-A
Soluble Salts	dS/m	1.61		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	%	16.85	41.42	TMECC 03.02-B

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Organic Matter by LOI @ 550C	%	23.83	58.58	TMECC 05.07-A
Total Organic Carbon (C)	%	11.92	29.29	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	17.3:1	17.3:1	TMECC 05.02-A
Foreign Material	%		0.04	TMECC 03.08-A
Germination - Emergence	%	96		TMECC 05.05-A
Germination - Vigor	%	93		TMECC 05.05-A
Ave Ht of Seedlings in Control	inches	4.1		TMECC 05.05-A
Ave Ht of Seedlings in Compost	inches	4.5		TMECC 05.05-A
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		1	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -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	%		4.02	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		20.04	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		21.76	TMECC 02.02-B



Loudoun Composting LLC

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

Product Name: **D414**

Sample Date: **12/11/14 11:00 AM**

Receive Date: **12/12/14**

A & L Lab Number: **76345**

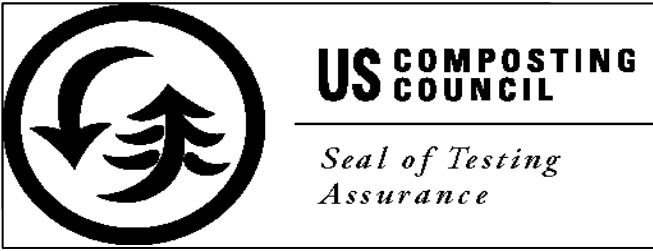
A & L Report Number: **F14346-6011**

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	0.69	1.69
Phosphorus	TMECC 04.03-A	P ₂ O ₅	0.20	0.48
Potassium	TMECC 04.04-A	K ₂ O	0.16	0.38
Calcium	TMECC 04.05-CA	Ca	0.18	0.44
Magnesium	TMECC 04.05-MG	Mg	0.04	0.10
Moisture Content	TMECC 03.09-A	%, wet weight basis	59.32	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	58.58	
pH	TMECC 04.11-A	pH units	8.0	
Soluble Salts (<i>electrical conductivity EC₅</i>)	TMECC 04.10-A	dS/m (mmhos/cm)	1.61	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	95.98	
Stability Indicator (<i>respirometry</i>)			<i>Stability Rating:</i>	
CO ₂ Evolution	TMECC 05.08-B	mg CO ₂ -C/g OM/day	1	Very Stable
		mg CO ₂ -C/g TS/day	1	
Maturity Indicator (bioassay)				
Percent Emergence	TMECC 05.05-A	average % of control	96	
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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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	59.32	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	58.58	
pH	TMECC 04.11-A	pH units	8.0	
Soluble Salts (electrical conductivity EC ₅)	TMECC 04.10-A	dS/m (mmhos/cm)	1.61	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	95.98	
Stability Indicator (respirometry)			Stability Rating:	
CO ₂ Evolution	TMECC 05.08-B	mg CO ₂ -C/g OM/day	1	Very Stable
		mg CO ₂ -C/g TS/day	1	
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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	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

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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