



**US COMPOSTING
COUNCIL**

*Seal of Testing
Assurance*

Loudoun Composting LLC

Tim Hutchinson
44150 Wade Dr
Chantilly VA 20152-1347

Product Name: **Pile # XXXXIIR**

Sample Date: **8/5/05 10:30 AM**

A & L Lab Number: **27949**

A & L Report Number: **F05221-6012**

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	0.86	1.26
Phosphorus	TMECC 04.03-A	P ₂ O ₅	0.28	0.41
Potassium	TMECC 04.04-A	K ₂ O	0.70	1.03
Calcium	TMECC 04.05-CA	Ca	1.73	2.54
Magnesium	TMECC 04.05-MG	Mg	0.36	0.53
Moisture Content	TMECC 03.09-A	%, wet weight basis	31.93	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	46.51	
pH	TMECC 04.11-A	pH units	8.1	
Soluble Salts <i>(electrical conductivity EC_s)</i>	TMECC 04.10-A	dS/m (mmhos/cm)	1.49	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	100.00	
Stability Indicator (<i>respirometry</i>)			<i>Stability Rating:</i>	
CO ₂ Evolution		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-B	average % of control	100	
Relative Seedling Vigor	TMECC 05.05-B	average % of control	75	
Select Pathogens	TMECC 07.01-B	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS	<i>FecalColiform</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	31.93	
Organic Matter Content	TMECC 05.07-A	%, dry weight basis	46.51	
pH	TMECC 04.11-A	pH units	8.1	
Soluble Salts (<i>electrical conductivity EC₅</i>)	TMECC 04.10-A	dS/m (mmhos/cm)	1.49	
Particle Size	TMECC 02.02-B	% < 9.5 mm (3/8 in.), dw basis	100.00	
<i>Stability Indicator (respirometry)</i>			<i>Stability Rating:</i>	
CO ₂ Evolution		mg CO ₂ -C/g OM/day	1	Very Stable
		mg CO ₂ -C/g TS/day	1	
<i>Maturity Indicator (bioassay)</i>				
Percent Emergence	TMECC 05.05-B	average % of control	100	
Relative Seedling Vigor	TMECC 05.05-B	average % of control	75	
Select Pathogens	TMECC 07.01-B	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS	<i>FecalColiform</i>
Trace Metals	TMECC 04.06	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13,	PASS	<i>As, Cd, Pb, Hg, Mo, Ni, Se, Zn</i>

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REPORT NO.
F05221-6012
ACCOUNT NUMBER
52501

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274
www.algreatlakes.com • lab@algreatlakes.com



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

COPY: AL RATTIE

STA

ATTN: TIM HUTCHINSON

LAB NUMBER: 27949

SAMPLE ID: PILE XXXXIIR

COMPOST ANALYSIS REPORT

DATE SAMPLED: 08/05/2005

DATE RECEIVED: 08/09/2005

DATE REPORTED: 08/25/2005

PAGE: 1

PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Moisture @ 70 C	%	31.93		TMECC 03.09-A
Dry Matter	%	68.07		TMECC 03.09-A
Total Nitrogen (N)	%	0.86	1.26	TMECC 04.02-D
Phosphorus (P)	%	0.12	0.18	TMECC 04.03-A
Phosphate (P205)	%	0.28	0.41	TMECC 04.03-A
Potassium (K)	%	0.59	0.86	TMECC 04.04-A
Potash (K2O)	%	0.70	1.03	TMECC 04.04-A
Magnesium (Mg)	%	0.36	0.53	TMECC 04.05-MG
Calcium (Ca)	%	1.73	2.54	TMECC 04.05-CA
Arsenic	mg/kg	3.350	4.921	SW846-6020 04.06-As
Cadmium	mg/kg	0.30	0.44	SW846-6020 04.06-Cd
Copper	mg/kg	22.47	33.01	SW846-6020 04.06-Cu
Mercury	mg/kg	<0.01	<0.01	SW846-6020 04.06-Hg
Molybdenum	mg/kg	0.46	0.67	SW846-6020 04.06-Mo
Nickel	mg/kg	8.00	11.75	SW846-6020 04.06-Ni
Lead	mg/kg	11.67	17.14	SW846-6020 04.06-Pb
Selenium	mg/kg	0.414	0.608	SW846-6020 04.06-Se

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Zinc	mg/kg	83.23	122.27	SW846-6020 04.06-Zn
pH	-	8.1		TMECC 04.11-A
Soluble Salts	dS/m	1.49		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		0	SM(20th)-9221E TMECC
Organic Matter by LOI @ 550C	%	31.66	46.51	TMECC 05.07-A
Organic Carbon by LOI @ 550C	%	15.83	23.26	Estimated
Carbon:Nitrogen Ratio (C:N)	-	18.5:1	18.5:1	TMECC 05.02-A
Germination - Emergence	%	100		TMECC 05.05-B
Germination - Vigor	%	75		TMECC 05.05-B
Ave Ht of Seedlings in Control	inches	3.6		TMECC 05.05-B
Ave Ht of Seedlings in Compost	inches	3.6		TMECC 05.05-B
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
Retained on U.S. 5/8-inch	%		0.00	TMECC 02.02-B

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PARAMETER	UNIT	ANALYSIS RESULT	DRY BASIS RESULT	ANALYSIS METHOD
Retained on U.S. 3/8-inch	%		0.00	TMECC 02.02-B
Retained on U.S. 1/4-inch	%		8.34	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		12.16	TMECC 02.02-B