

Report Number
F22041-6509
Account Number
99990



3505 Conestoga Dr.
Fort Wayne, IN 46808
260.483.4759
algreatlakes.com



To: 5 HEART EARTHWORM FARM
10125 S BEYER RD
BIRCH RUN, MI 48415

For: SARAH M ARCHER
DARRELL J REED

Purchase Order: 041-6509

Sample ID: JANUARY 2022 1 OF 2
Lab Number: 42426

Date Received: 2/10/2022
Date Reported: 3/3/2022

Page: 1 of 6

COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Moisture @ 70 C	%	44.39		TMECC 03.09-A
Solids	%	55.61		TMECC 03.09-A
Total Nitrogen (N)	%	0.50	0.90	TMECC 04.02-D
Phosphorus (P)	%	0.08	0.14	TMECC 04.03-A
Phosphate (P ₂ O ₅)	%	0.18	0.32	TMECC 04.03-A
Potassium (K)	%	0.26	0.46	TMECC 04.04-A
Potash (K ₂ O)	%	0.31	0.55	TMECC 04.04-A
Magnesium (Mg)	%	0.17	0.30	TMECC 04.05-MG
Calcium (Ca)	%	0.98	1.77	TMECC 04.05-CA
Arsenic	mg/kg	1.36	2.45	US EPA SW846-6020
Cadmium	mg/kg	< 0.275	< 0.494	US EPA SW846-6020
Chromium	mg/kg	2.52	4.54	US EPA SW846-6020
Copper	mg/kg	6.1	11.0	US EPA SW846-6010C
Mercury	mg/kg	< 0.325	< 0.584	US EPA SW846-6020
Molybdenum	mg/kg	< 0.296	< 0.532	US EPA SW846-6020

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

-COMPOST

Report Approved By: 
David Henry - Agronomist / Technical Services - CCA
Approval Date: 3/03/2022

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Nickel	mg/kg	1.73	3.11	US EPA SW846-6020
Lead	mg/kg	10.3	18.6	US EPA SW846-6020
Selenium	mg/kg	< 0.64	< 1.15	US EPA SW846-6020
Zinc	mg/kg	33.1	59.5	US EPA SW846-6010C
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	7.7		TMECC 04.11-A
Soluble Salts	dS/m	1.53		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	%	42.62	76.64	TMECC 03.02-B
Organic Matter (LOI @ 550 C)	%	12.99	23.36	TMECC 05.07-A
Total Organic Carbon (C)	%	6.50	11.68	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	13.0:1	13.0:1	TMECC 05.02-A
Foreign Material	%		0.00	TMECC 03.08-A
Germination - Emergence	%	100		TMECC 05.05-A

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Germination - Vigor	%	100		TMECC 05.05-A
Ave Ht of Seedlings in Control	centimeters	8.6		TMECC 05.05-A
Ave Ht of Seedlings in Compost	centimeters	14.3		TMECC 05.05-A
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		0.2	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -C / g OM/Day		0.4	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	%		0.00	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		0.27	TMECC 02.02-B

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Page: 4 of 6

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Moisture @ 70 C	%	44.44		TMECC 03.09-A
Solids	%	55.56		TMECC 03.09-A
Total Nitrogen (N)	%	0.48	0.87	TMECC 04.02-D
Phosphorus (P)	%	0.07	0.13	TMECC 04.03-A
Phosphate (P ₂ O ₅)	%	0.17	0.30	TMECC 04.03-A
Potassium (K)	%	0.23	0.42	TMECC 04.04-A
Potash (K ₂ O)	%	0.28	0.50	TMECC 04.04-A
Magnesium (Mg)	%	0.15	0.27	TMECC 04.05-MG
Calcium (Ca)	%	0.79	1.42	TMECC 04.05-CA
Arsenic	mg/kg	1.45	2.61	US EPA SW846-6020
Cadmium	mg/kg	< 0.273	< 0.492	US EPA SW846-6020
Chromium	mg/kg	3.23	5.81	US EPA SW846-6020
Copper	mg/kg	7.1	12.7	US EPA SW846-6010C
Mercury	mg/kg	< 0.323	< 0.581	US EPA SW846-6020
Molybdenum	mg/kg	< 0.294	< 0.530	US EPA SW846-6020

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Nickel	mg/kg	1.89	3.41	US EPA SW846-6020
Lead	mg/kg	9.7	17.5	US EPA SW846-6020
Selenium	mg/kg	< 0.63	< 1.14	US EPA SW846-6020
Zinc	mg/kg	36.2	65.2	US EPA SW846-6010C
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	7.7		TMECC 04.11-A
Soluble Salts	dS/m	1.48		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	%	43.28	77.90	TMECC 03.02-B
Organic Matter (LOI @ 550 C)	%	12.28	22.10	TMECC 05.07-A
Total Organic Carbon (C)	%	6.14	11.05	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	12.7:1	12.7:1	TMECC 05.02-A
Foreign Material	%		0.00	TMECC 03.08-A
Germination - Emergence	%	93		TMECC 05.05-A

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Ave Ht of Seedlings in Control	centimeters	8.6		TMECC 05.05-A
Ave Ht of Seedlings in Compost	centimeters	13.4		TMECC 05.05-A
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		0.2	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -C / g OM/Day		0.3	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	%		0.00	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		0.15	TMECC 02.02-B