

Report Number
F20113-6515
Account Number
84504



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



To: ARLINGTON SOLID WASTE BUREAU
4300 29TH ST S
ARLINGTON, VA 22206-2211

Attn: ERIK GRABOWSKY

Sample ID: LEAF MULCH
Lab Number: 24783

Date Received: 4/22/2020
Date Reported: 5/7/2020

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COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Moisture @ 70 C	%	76.44		TMECC 03.09-A
Solids	%	23.56		TMECC 03.09-A
Total Nitrogen (N)	%	0.43	1.84	TMECC 04.02-D
Nitrate Nitrogen (NO3-N)	mg/kg	0.2	1	TMECC 04.02-B
Phosphorus (P)	%	0.03	0.13	TMECC 04.03-A
Phosphate (P ₂ O ₅)	%	0.07	0.30	TMECC 04.03-A
Potassium (K)	%	0.09	0.38	TMECC 04.04-A
Potash (K ₂ O)	%	0.11	0.46	TMECC 04.04-A
Sulfur (S)	%	0.12	0.51	TMECC 04.05-S
Magnesium (Mg)	%	0.08	0.36	TMECC 04.05-MG
Calcium (Ca)	%	0.57	2.43	TMECC 04.05-CA
Sodium (Na)	%	0.005	0.02	TMECC 04.05-NA
Iron (Fe)	%	0.15	0.62	TMECC 04.05-FE
Aluminum (Al)	%	0.25	1.06	TMECC 04.07-AL
Boron (B)	mg/kg	12	52	TMECC 04.05-B

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

-COMPOST

Report Approved By:


Greg Neyman - Vice President / COO

Approval Date:

5/07/2020

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COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Manganese (Mn)	mg/kg	307	1303	TMECC 04.05-MN
Arsenic	mg/kg	0.45	1.90	US EPA SW846-6020
Cadmium	mg/kg	0.153	0.648	US EPA SW846-6020
Chromium	mg/kg	2.4	10.3	US EPA SW846-6020
Copper	mg/kg	23.1	98.0	US EPA SW846-6010C
Mercury	mg/kg	0.017	0.073	US EPA SW846-6020
Molybdenum	mg/kg	0.234	0.994	US EPA SW846-6020
Nickel	mg/kg	2.06	8.75	US EPA SW846-6020
Lead	mg/kg	4.3	18.1	US EPA SW846-6020
Selenium	mg/kg	< 0.25	< 1.04	US EPA SW846-6020
Zinc	mg/kg	36	151	US EPA SW846-6010C
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	7.6		TMECC 04.11-A
Soluble Salts	dS/m	0.71		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		< 2	SM(20th)-9221E TMECC

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COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Pathogen Reduction - PASS/FAIL	pass/fail		PASS	40 CFR 503 Class A Compost
Ash @ 550 C	%	5.51	23.40	TMECC 03.02-B
Organic Matter (LOI @ 550 C)	%	18.05	76.60	TMECC 05.07-A
Total Organic Carbon (C)	%	9.02	38.30	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	20.8:1	20.8:1	TMECC 05.02-A
Bulk Density - As Received Basis	g/cm3	0.50		TMECC 03.01-A
Bulk Density - Dry Basis	g/cm3		0.12	TMECC 03.01-A
Pore Space %	%	99.21		TMECC 03.01-A
Free Airspace %	%	23.81		TMECC 03.01-A
Water Holding Capacity	%	75.41		TMECC 03.01-A
Foreign Material	%	0.13	0.55	TMECC 03.08-A
Germination - Emergence	%	100		TMECC 05.05-A
Germination - Vigor	%	100		TMECC 05.05-A
Ave Ht of Seedlings in Control	centimeters	9.3		TMECC 05.05-A
Ave Ht of Seedlings in Compost	centimeters	10.4		TMECC 05.05-A

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COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		3.9	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -C / g OM/Day		1.2	TMECC 05.08-B
Compost Stability Index	-		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	%		5.01	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		5.04	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		9.00	TMECC 02.02-B

Comments:

MERCURY WAS ANALYZED BY EPA METHOD SW7471B.

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COMPOST ANALYSIS

Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Moisture @ 70 C	%	39.28		TMECC 03.09-A
Solids	%	60.72		TMECC 03.09-A
Total Nitrogen (N)	%	0.63	1.03	TMECC 04.02-D
Nitrate Nitrogen (NO3-N)	mg/kg	1	1	TMECC 04.02-B
Phosphorus (P)	%	0.07	0.11	TMECC 04.03-A
Phosphate (P ₂ O ₅)	%	0.15	0.25	TMECC 04.03-A
Potassium (K)	%	0.27	0.45	TMECC 04.04-A
Potash (K ₂ O)	%	0.33	0.54	TMECC 04.04-A
Sulfur (S)	%	0.06	0.10	TMECC 04.05-S
Magnesium (Mg)	%	0.16	0.26	TMECC 04.05-MG
Calcium (Ca)	%	0.90	1.48	TMECC 04.05-CA
Sodium (Na)	%	0.01	0.02	TMECC 04.05-NA
Iron (Fe)	%	0.47	0.77	TMECC 04.05-FE
Aluminum (Al)	%	0.38	0.63	TMECC 04.07-AL
Boron (B)	mg/kg	10	16	TMECC 04.05-B

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Manganese (Mn)	mg/kg	288	475	TMECC 04.05-MN
Arsenic	mg/kg	1.97	3.24	US EPA SW846-6020
Cadmium	mg/kg	0.341	0.561	US EPA SW846-6020
Chromium	mg/kg	12.6	20.7	US EPA SW846-6020
Copper	mg/kg	23.1	38.1	US EPA SW846-6010C
Mercury	mg/kg	0.036	0.060	US EPA SW846-6020
Molybdenum	mg/kg	1.46	2.40	US EPA SW846-6020
Nickel	mg/kg	4.25	7.00	US EPA SW846-6020
Lead	mg/kg	20.0	32.9	US EPA SW846-6020
Selenium	mg/kg	< 0.599	< 0.986	US EPA SW846-6020
Zinc	mg/kg	76	125	US EPA SW846-6010C
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	4.5		TMECC 04.11-A
Soluble Salts	dS/m	2.81		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		130	SM(20th)-9221E TMECC

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Pathogen Reduction - PASS/FAIL	pass/fail		PASS	40 CFR 503 Class A Compost
Ash @ 550 C	%	21.22	34.94	TMECC 03.02-B
Organic Matter (LOI @ 550 C)	%	39.50	65.06	TMECC 05.07-A
Total Organic Carbon (C)	%	19.75	32.53	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	31.6:1	31.6:1	TMECC 05.02-A
Bulk Density - As Received Basis	g/cm3	0.30		TMECC 03.01-A
Bulk Density - Dry Basis	g/cm3		0.18	TMECC 03.01-A
Pore Space %	%	85.70		TMECC 03.01-A
Free Airspace %	%	7.09		TMECC 03.01-A
Water Holding Capacity	%	78.60		TMECC 03.01-A
Foreign Material	%	0.05	0.09	TMECC 03.08-A
Germination - Emergence	%	100		TMECC 05.05-A
Germination - Vigor	%	94		TMECC 05.05-A
Ave Ht of Seedlings in Control	centimeters	9.3		TMECC 05.05-A
Ave Ht of Seedlings in Compost	centimeters	10.5		TMECC 05.05-A

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Respiration - CO ₂ -C/g TS	mg CO ₂ -C / g TS/Day		2.0	TMECC 05.08-B
Respiration - CO ₂ -C/g OM	mg CO ₂ -C / g OM/Day		1.5	TMECC 05.08-B
Compost Stability Index	-		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	%		1.87	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		8.80	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		10.41	TMECC 02.02-B

Comments:

MERCURY WAS ANALYZED BY EPA METHOD SW7471B.