



PennState Extension

Begin selling in September

Agricultural Analytical Services Laboratory
The Pennsylvania State University
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Analysis Report For:				Copy To:		
Jayne Senecal Earth Care Farm 89A Country Dr Charlestown RI 02813						
LAB ID:	SAMPLE ID:	REPORT DATE:	SAMPLE TYPE:	FEEDSTOCKS	COMPOSTING METHOD	COUNTY
C14149	Penelope 12/15/20	03/07/2022	Finished Compost		Windrow	

COMPOST ANALYSIS REPORT

EPA 503 Pollutants

Analyte	Results (As is Basis)	Results (Dry Weight Basis)	EPA SW 846 Method
Arsenic (As)	1.38 mg/kg	2.1 mg/kg	3050B + 6010
Cadmium (Cd)	< 0.36 mg/kg	< 0.6 mg/kg	3050B + 6010
Copper (Cu)	28.0 mg/kg	42.9 mg/kg	3050B + 6010
Lead (Pb)	3.44 mg/kg	5.3 mg/kg	3050B + 6010
Mercury (Hg)	0.022 mg/kg	0.03 mg/kg	7473
Molybdenum (Mo)	6.12 mg/kg	9.4 mg/kg	3050B + 6010
Nickel (Ni)	2.96 mg/kg	4.5 mg/kg	3050B + 6010
Selenium (Se)	< 1.80 mg/kg	< 2.8 mg/kg	3050B + 6010
Zinc (Zn)	55.42 mg/kg	84.9 mg/kg	3050B + 6010

Calcium (Ca)	7.551 %	11.57 %	
Magnesium (Mg)	0.061 %	0.09 %	
Sulfur (S)	0.115 %	0.18 %	
Sodium (Na)	100.95 mg/kg	154.7 mg/kg	
Aluminum (Al)	1482.99 mg/kg	2279 mg/kg	
Iron (Fe)	3158.25 mg/kg	4841 mg/kg	
Manganese (Mn)	75.11 mg/kg	113 mg/kg	

See comments on back of report.
 *Dry weight basis is P₂O₅ into elemental phosphorus (P), divide by 2.29. To convert potassium (K₂O) into elemental potassium (K), divide by 1.20.
 *Weather: arrived ambient in good condition, 13.2°C, sampled at 3:00PM by VLN.



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COMPOST ANALYSIS REPORT

Compost Test 2A

Analyte	Results (As is basis)	Results (Dry weight basis)
pH	7.5	—
Soluble Salts (1:5 w:w)	0.85 mmhos/cm	—
Solids	65.24 %	—
Moisture	34.8 %	—
Organic Matter	9.89 %	15.2 %
Total Nitrogen (N)	0.449 %	0.7 %
Organic Nitrogen ¹	0.448 %	0.7 %
Ammonium N (NH ₄ -N)	9.8 mg/kg or 0.0010 %	15.1 mg/kg or 0.0015 %
Carbon (C)	8.95 %	13.7 %
Carbon:Nitrogen (C:N) Ratio	19.90	19.90
Phosphorus (as P ₂ O ₅) ²	0.51 %	0.78 %
Potassium (as K ₂ O) ²	0.10 %	0.15 %
Calcium (Ca)	7.551 %	11.57 %
Magnesium (Mg)	0.061 %	0.09 %
Sulfur (S)	0.115 %	0.18 %
Sodium (Na)	1005.95 mg/kg	1542 mg/kg
Aluminum (Al)	1482.99 mg/kg	2273 mg/kg
Iron (Fe)	3158.25 mg/kg	4841 mg/kg
Manganese (Mn)	75.31 mg/kg	115 mg/kg

¹ See comments on back of report.

² To convert phosphorus as P₂O₅ into elemental phosphorus (P), divide by 2.29. To convert potassium (as K₂O) into elemental potassium (K), divide by 1.20.

1 container arrived ambient in good condition, 13.2°C, sampled at 3:00PM by VLH

Soil Report

Job Name **Earth Care Farm**

Date **3/3/2022**

Company **Earth Care Farm**

Submitted By _____

Sample Location		Penelope	Felicia			
Sample ID		121520	033021			
Lab Number		10	11			
Sample Depth in inches		6	6			
Total Exchange Capacity (M. E.)		31.41	22.30			
pH of Soil Sample		7.4	8.1			
Organic Matter, Percent		13.48	13.35			
ANIONS	SULFUR: p.p.m.	22	17			
	Mehlich III Phosphorous: as (P ₂ O ₅) lbs / acre	1084	1293			
EXCHANGEABLE CATIONS	CALCIUM: lbs / acre Desired Value Value Found Deficit	11416	7988			
	MAGNESIUM: lbs / acre Desired Value Value Found Deficit	214	214			
	POTASSIUM: lbs / acre Desired Value Value Found Deficit	298	298			
	SODIUM: lbs / acre	156	148			
BASE SATURATION %	Calcium (60 to 70%)	90.87	89.56			
	Magnesium (10 to 20%)	2.84	4.00			
	Potassium (2 to 5%)	1.22	1.71			
	Sodium (.5 to 3%)	1.08	1.44			
	Other Bases (Variable)	4.00	3.30			
	Exchangeable Hydrogen (10 to 15%)	0.00	0.00			
TRACE ELEMENTS	Boron (p.p.m.)	0.92	0.64			
	Iron (p.p.m.)	118	111			
	Manganese (p.p.m.)	18	16			
	Copper (p.p.m.)	0.85	0.76			
	Zinc (p.p.m.)	9.5	9.98			
	Aluminum (p.p.m.)	34	50			
OTHER	Cobalt ppm	< 0.02	0.044			
	Molybdenum ppm	0.35	0.46			
	Ammonium (p.p.m.)	6.7	2.9			
	Nitrate (p.p.m.)	115.7	11.2			
	Selenium ppm	1.46	1.39			
	Silicon ppm	2.2	2.5			
	Estimated Nitrogen Release #N/Acre	127	127			
	EC mmhos/cm	0.7	0.26			
	Media Density g/cm3	0.54	0.55			