

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Lab #	2655052	Repor	t of Analys	is	Report Number: 17-104-4094 V3			
	Account:							
EarthSoil, Inc.					1/1 f			
		5000-18 US Hwy 17 S. #107			Koll Fes			
		Fleming Island, F	L. 32003		Robert Ferris			
					Account Manager			
	Date Sampled:				402-829-9871			
D	ate Received:	2017-04-10			SAMPLE ANALYSIS			
	Sample ID:	Super Compost	/ Compost P	lus!				
						Total content,		
				Analysis	Analysis	lbs per ton		
				(as rec'd)	(dry weight)	(as rec'd)		
NUTE	RIENTS							
1	Nitrogen		0/	1.00	2.00	26.0		
	Total Nitroge		%	1.80	2.22	36.0		
	Organic Nitro		%	1.49	1.83	29.8		
	Ammonium N			0.301	0.371	6.0		
	Nitrate Nitrog	en	%	0.01	0.01	0.2		
	Major and Secor	ndary Nutriente						
	Phosphorus	idaly Nullients	%	1.01	1.24	20.2		
Phosphorus Phosphorus as P2O5			%	2.31	2.84	46.2		
Potassium			%	2.10	2.59	42.0		
Potassium as K2O			%	2.53	3.12	50.6		
Sulfur			%	0.77	0.95	15.4		
Calcium			%	4.91	6.05	98.2		
Magnesium			%	0.72	0.89	14.4		
Sodium			%	0.640	0.788	12.8		
			,,	0.0.0	000			
	Micronutrients							
	Zinc		ppm	390	480	0.8		
	Iron		ppm	2470	3042	4.9		
	Manganese		ppm	279	344	0.6		
	Copper		ppm	80.1	99	0.2		
	Boron		ppm	< 100				
OTHER PROPERTIES								
	Moisture			18.80				
	Total Solids			81.20		1624.0		
	Organic Matter			23.60	29.06	472.0		
Ash			%	57.60	70.94	1152.0		
	C:N Ratio			7 : 1				
	Total Carbon		%	12.94	15.94			
	Chloride		%	0.92	1.13			
	рН			8.2				
	Conductivity	1:5 (Soluble Salts)	mS/cm	17.7				

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.





13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 www.midwestlabs.com

Compost Results Interpretations

Page 1

Report #:
DATE RECEIVED:

17-104-4094 V3 2017-04-10

Organic Matter %

23.60 As Received 29.06 Dry Weight

Greater than 20% indicates a desirable range for compost on a dry weight basis.

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

7.2:1

20-30 indicates an ideal range for the initial compost process.

10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

18.80

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 www.midwestlabs.com

Compost Results Interpretations

Page 2

Report #: DATE RECEIVED:

17-104-4094 V3 2017-04-10

Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5					
Conductivity Level	Interpretation				
Greater than 10	Very High nutrient content. Use for Ag Applications				
5 - 10	High nutrient content. Use for Ag Applications				
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor				
0.6 - 3	Desirable range for most plants				
0.3 - 0.6	Ideal range for greenhouse growth media				
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.				



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 www.midwestlabs.com

Compost Results Interpretations

Page 3

Report #:
DATE RECEIVED:

17-104-4094 V3 2017-04-10

pH Value

8.2

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

4.3

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART										
salt injury possible	use on soils with excellent drainage characteristics, good water quality and low salts			you may use on soils with poor drainage, poor water quality, or high salts					for all soils	
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

8.18 Average Nutrient Content Dry Weight

<2 = Low, >5 = High

2-2.5-2.5 Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

17-104-4094 v3

May 22, 2017
RECEIVED DATE
Apr 10, 2017

SEND TO **28509**



PAGE 5/5

May 22, 2017

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

EarthSoil, Inc.

5000-18 US Hwy. 17 S. #107 Fleming Island, FL. 32003

REPORT OF ANALYSIS

SAMPLE ANALYSIS

	Level Found			Reporting		Analyst-	Verified-	
Analysis	As Received	Dry Weight	Units	Limit	Method	Date	Date	
Sample ID: COMPOST	Lab Number: 2655052							
Water soluble nitrogen	0.52		%	0.01	Calculation	Auto-2017/04/18	Auto-2017/04/20	
Water insoluble nitrogen	(WIN) 1.28		%	0.01	AOAC 945.01/2001.11	crn7-2017/04/18	asl4-2017/04/20	

This report was reissued on 2017-05-22 14:39:07 by mjs5 for the following reason: resend out report.

For questions please contact:

Rob Ferris

Account Manager

rferris@midwestlabs.com (402)829-9871