

# Woods End Laboratories LLC

150 Whitten Road  
 Augusta, ME 04330/USA  
 207-293-2457 www.woodsend.com lab@woodsend.com  
 Soil and Compost Testing since 1975

Account: 3367

· Syed Dong  
 · Black Earth Compost  
 · 2 Hillside Road  
 · Gloucester MA 01930

Code: NDA Project: 0

Date Received : 29-Jan-2026

Date Reported : 20-Feb-2026

Lab ID Number : 13472.0

Quality Control : nh

## COMPOSITION ANALYSIS

Sample Identification: Fram Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations
Bulk Density .....	lbs·ft <sup>3</sup>	-	37	1011 lbs/yd <sup>3</sup>
Total Solids (dry matter) .....	%	100.0	45.4	908 lbs/ton
Moisture Content .....	%	0.0	54.6	131 gals/ton
Water Holding Capacity ( <i>calc</i> ) .....	%	147	60	143 gals/ton
Inert and Oversize Particles .....	%	↔	17.1	341.2 lbs/ton
pH (sat. paste in H <sub>2</sub> O) .....	-logH <sup>+</sup>	↔	8.36	High
Organic Matter (Volatile Solids) .....	%	44.5	20.2	Medium
Ash Residue Content .....	%	55.5	25.2	Medium
Conductivity (salinity) .....	dS·m <sup>-1</sup>	↔	4.0	Medium
Carbon:Nitrogen (C:N) Ratio ( <i>calc</i> ) w:w		12.6	12.6	Medium
Respiration, Volumetric ... (Solvita 1-8)		↔	5.43	Medium
Ammonia Volatization ... (Solvita 1-5)		↔	3.79	Medium
Compost Maturity Index ... (Value 1-8)		↔	4.7	Active Composting

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 Lab ID Number : 13472.0  
 Quality Control : nh

## MINERALS ANALYSIS

Sample Identification: Fram Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
<b>..... Solids and Nutrients .....</b>				
Total Solids (dry matter) .....	%	100.0	45.4	908 lbs/ton
Moisture Content .....	%	0.0	54.6	131 gals/ton
Total Nitrogen .....	%	1.658	0.753	15.1 MH
Phosphorus (P) <i>total</i> .....	%	0.448	0.204	4.1 ML
<b>..... Extractable &amp; Total Cations .....</b>				
Ammonium (NH <sub>4</sub> -N) <i>soluble</i> .....	ppm	2600	1181	2.4
Potassium (K) <i>total</i> .....	%	0.71	0.32	6.4
Sodium (Na) <i>total</i> .....	%	0.18	0.08	1.6
Calcium (Ca) <i>total</i> .....	%	2.42	1.10	22.0
Magnesium (Mg) <i>total</i> .....	%	0.41	0.19	3.8
<hr/>				
Volatile N as % of total-N .....	w:w	↔	2.0	-

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Notes: percent x 10,000 = ppm; ppm = mg/kg;

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## METALS and NON-METALS ANALYSIS

Sample Identification: Fram Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	lbs/ton Rating <i>as is</i>
Moisture .....	%	0.0	54.6	
Total Solids .....	%	100.0	45.4	272 g/liter
Density .....	(kg·m <sup>3</sup> )	-	600	0.60 g/cc
Copper (Cu) .....	mg·kg <sup>-1</sup>	54	24	<0.1 Low
Manganese (Mn) .....	mg·kg <sup>-1</sup>	330	150	0.3 Med High
Iron (Fe) .....	mg·kg <sup>-1</sup>	6529	2964	5.9 Very High
Zinc (Zn) .....	mg·kg <sup>-1</sup>	23	10	<0.1 V Low
Lead (Pb) .....	mg·kg <sup>-1</sup>	20.6	9.4	8.5 L
Chromium (Cr) .....	mg·kg <sup>-1</sup>	22.9	-	-
Cadmium (Cd) .....	mg·kg <sup>-1</sup>	<4.0	-	-
Nickel (Ni) .....	mg·kg <sup>-1</sup>	16	-	-
Arsenic (As) .....	mg·kg <sup>-1</sup>	3.2	-	-
Mercury (Hg) .....	mg·kg <sup>-1</sup>	< 0.1	-	-
Selenium (Se) .....	mg·kg <sup>-1</sup>	< 1	-	-

..... **BACTERIOLOGIC ANALYSIS** .....

Fecal coliform .....	MPN per g	< 3	-
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Notes: † "as is" = wet basis; mg·kg<sup>-1</sup> = ppm (parts per million); < signifies *less than MLD* (minimum level of detection)

‡ Rating of Metals Based on international standard

‡ Note: Metals Pb, Cr, Cd, Ni in grams/ton under Rating column

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END REPORT \*\*\*\*\*



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Account: 3367  
Black Earth Compost  
Syed Dong  
2 Hillside Rd  
Gloucester, MA 01930  
9178335435

Code: Project: n/a

Date Reported : 20-Feb-26

## COMPOSITION ANALYSIS

Sample ID	13472.0	Compost: Fram	% Passing
Screen			
1"			100.00
3/4"			100.00
1/2"			99.00
3/8"			94.31
1/4"			82.94
1/8"			66.89



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MA 01930  
9178335435

Code: Project: n/a

Date Reported : 20-Feb-26

## COMPOSITION ANALYSIS

Sample ID	13472.0	Compost: Fram	Result
	Germination %		86.67
	Vigor %		68.55

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Code: NDA Project: 0  
 Date Received : 29-Jan-2026  
 Date Reported : 20-Feb-2026  
 Lab ID Number : 13472.1  
 Quality Control : nh

## COMPOSITION ANALYSIS

Sample Identification: Manch Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations
Bulk Density .....	lbs·ft <sup>3</sup>	-	42	1129 lbs/yd <sup>3</sup>
Total Solids (dry matter) .....	%	100.0	48.9	978 lbs/ton
Moisture Content .....	%	0.0	51.1	123 gals/ton
Water Holding Capacity ( <i>calc</i> ) .....	%	136	58	138 gals/ton
Inert and Oversize Particles .....	%	↔	6.3	126.2 lbs/ton
pH (sat. paste in H <sub>2</sub> O) .....	-logH <sup>+</sup>	↔	7.82	Medium High
Organic Matter (Volatile Solids) .....	%	40.4	19.7	Medium
Ash Residue Content .....	%	59.6	29.2	Medium
Conductivity (salinity) .....	dS·m <sup>-1</sup>	↔	3.9	Medium
Carbon:Nitrogen (C:N) Ratio ( <i>calc</i> ) w:w		9.8	9.8	Med Low
Respiration, Volumetric ... (Solvita 1-8)		↔	5.31	Medium
Ammonia Volatization ... (Solvita 1-5)		↔	5.00	low or none
Compost Maturity Index ... (Value 1-8)		↔	5.4	Early-Cure Compost

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 Lab ID Number : 13472.1  
 Quality Control : nh

## MINERALS ANALYSIS

Sample Identification: Manch Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
<b>..... Solids and Nutrients .....</b>				
Total Solids (dry matter) .....	%	100.0	48.9	978 lbs/ton
Moisture Content .....	%	0.0	51.1	123 gals/ton
Total Nitrogen .....	%	1.940	0.949	19.0 MH
Phosphorus (P) <i>total</i> .....	%	0.501	0.245	4.9 ML
<b>..... Extractable &amp; Total Cations .....</b>				
Ammonium (NH <sub>4</sub> -N) <i>soluble</i> .....	ppm	888	434	0.9
Potassium (K) <i>total</i> .....	%	0.76	0.37	7.5
Sodium (Na) <i>total</i> .....	%	0.23	0.11	2.2
Calcium (Ca) <i>total</i> .....	%	2.63	1.29	25.8
Magnesium (Mg) <i>total</i> .....	%	0.49	0.24	4.8

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Notes: percent x 10,000 = ppm; ppm = mg/kg;

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 Lab ID Number : 13472.1

## METALS and NON-METALS ANALYSIS

Sample Identification: Manch Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	lbs/ton Rating <i>as is</i>
Moisture .....	%	0.0	51.1	
Total Solids .....	%	100.0	48.9	328 g/liter
Density .....	(kg·m <sup>3</sup> )	-	670	0.67 g/cc
Copper (Cu) .....	mg·kg <sup>-1</sup>	44	22	<0.1 Low
Manganese (Mn) .....	mg·kg <sup>-1</sup>	481	235	0.5 High
Iron (Fe) .....	mg·kg <sup>-1</sup>	9381	4587	9.2 Very High
Zinc (Zn) .....	mg·kg <sup>-1</sup>	35	17	<0.1 V Low
Lead (Pb) .....	mg·kg <sup>-1</sup>	49.5	24.2	22.0 M
Chromium (Cr) .....	mg·kg <sup>-1</sup>	36.4	-	-
Cadmium (Cd) .....	mg·kg <sup>-1</sup>	<4.0	-	-
Nickel (Ni) .....	mg·kg <sup>-1</sup>	22	-	-
Arsenic (As) .....	mg·kg <sup>-1</sup>	3.4	-	-
Mercury (Hg) .....	mg·kg <sup>-1</sup>	< 0.1	-	-
Selenium (Se) .....	mg·kg <sup>-1</sup>	< 1	-	-

### BACTERIOLOGIC ANALYSIS

Fecal coliform . . . . .	MPN per g	< 3	-
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Notes: † "as is" = wet basis; mg·kg<sup>-1</sup> = ppm (parts per million); < signifies *less than MLD* (minimum level of detection)

‡ Rating of Metals Based on international standard

‡ Note: Metals Pb, Cr, Cd, Ni in grams/ton under Rating column

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END REPORT \*\*\*\*\*



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Gloucester, MA 01930  
9178335435

Code: Project: n/a

Date Reported : 20-Feb-26

## COMPOSITION ANALYSIS

Sample ID	13472.1	Compost: Manch	% Passing
Screen			
1"			100.00
3/4"			100.00
1/2"			100.00
3/8"			100.00
1/4"			93.69
1/8"			82.58



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Code: Project: n/a

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## COMPOSITION ANALYSIS

Sample ID	13472.1	Compost: Manch	Result
	Germination %		10.00
	Vigor %		72.38

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 Lab ID Number : 13472.2  
 Quality Control : nh

## COMPOSITION ANALYSIS

Sample Identification: Grot Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations
Bulk Density .....	lbs·ft <sup>3</sup>	-	38	1028 lbs/yd <sup>3</sup>
Total Solids (dry matter) .....	%	100.0	47.6	952 lbs/ton
Moisture Content .....	%	0.0	52.4	126 gals/ton
Water Holding Capacity ( <i>calc</i> ) .....	%	122	55	132 gals/ton
Inert and Oversize Particles .....	%	↔	10.4	208.4 lbs/ton
pH (sat. paste in H <sub>2</sub> O) .....	-logH <sup>+</sup>	↔	7.90	Medium High
Organic Matter (Volatile Solids) .....	%	35.2	16.7	V Low
Ash Residue Content .....	%	64.8	30.9	Med-High
Conductivity (salinity) .....	dS·m <sup>-1</sup>	↔	3.6	Medium
Carbon:Nitrogen (C:N) Ratio ( <i>calc</i> ) w:w		10.2	10.2	Med Low
Respiration, Volumetric ... (Solvita 1-8)		↔	6.17	Medium
Ammonia Volatization ... (Solvita 1-5)		↔	5.00	low or none
Compost Maturity Index ... (Value 1-8)		↔	6.1	Practical Maturity

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 Quality Control : nh

## MINERALS ANALYSIS

Sample Identification: Grot Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
<b>..... Solids and Nutrients .....</b>				
Total Solids (dry matter) .....	%	100.0	47.6	952 lbs/ton
Moisture Content .....	%	0.0	52.4	126 gals/ton
Total Nitrogen .....	%	1.620	0.771	15.4 MH
Phosphorus (P) <i>total</i> .....	%	0.354	0.169	3.4 L
<b>..... Extractable &amp; Total Cations .....</b>				
Ammonium (NH <sub>4</sub> -N) <i>soluble</i> .....	ppm	400	190	0.4
Potassium (K) <i>total</i> .....	%	0.77	0.37	7.3
Sodium (Na) <i>total</i> .....	%	0.19	0.09	1.8
Calcium (Ca) <i>total</i> .....	%	3.06	1.46	29.1
Magnesium (Mg) <i>total</i> .....	%	0.47	0.22	4.5

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 Lab ID Number : 13472.2

## METALS and NON-METALS ANALYSIS

Sample Identification: Grot Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	lbs/ton Rating <i>as is</i>
Moisture .....	%	0.0	52.4	
Total Solids .....	%	100.0	47.6	290 g/liter
Density .....	(kg·m <sup>3</sup> )	-	610	0.61 g/cc
Copper (Cu) .....	mg·kg <sup>-1</sup>	22	10	<0.1 Very Low
Manganese (Mn) .....	mg·kg <sup>-1</sup>	590	281	0.6 High
Iron (Fe) .....	mg·kg <sup>-1</sup>	7610	3623	7.2 Very High
Zinc (Zn) .....	mg·kg <sup>-1</sup>	36	17	<0.1 V Low
Lead (Pb) .....	mg·kg <sup>-1</sup>	33.5	15.9	14.5 M
Chromium (Cr) .....	mg·kg <sup>-1</sup>	36.2	-	-
Cadmium (Cd) .....	mg·kg <sup>-1</sup>	<4.0	-	-
Nickel (Ni) .....	mg·kg <sup>-1</sup>	22	-	-
Arsenic (As) .....	mg·kg <sup>-1</sup>	7.1	-	-
Mercury (Hg) .....	mg·kg <sup>-1</sup>	< 0.1	-	-
Selenium (Se) .....	mg·kg <sup>-1</sup>	< 1	-	-

### BACTERIOLOGIC ANALYSIS .....

Fecal coliform . . . . .	MPN per g	< 3	-
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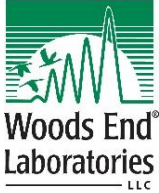
Notes: † "as is" = wet basis; mg·kg<sup>-1</sup> = ppm (parts per million); < signifies *less than MLD* (minimum level of detection)

‡ Rating of Metals Based on international standard

‡ Note: Metals Pb, Cr, Cd, Ni in grams/ton under Rating column

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END REPORT \*\*\*\*\*



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Gloucester, MA 01930  
9178335435

Code: Project: n/a

Date Reported : 20-Feb-26

## COMPOSITION ANALYSIS

Sample ID	13472.2	Compost: Grot	% Passing
Screen			
1"			100.00
3/4"			100.00
1/2"			100.00
3/8"			97.07
1/4"			89.58
1/8"			76.55



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9178335435

Code: Project: n/a

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## COMPOSITION ANALYSIS

Sample ID	13472.2	Compost: Grot	Result
	Germination %		90.00
	Vigor %		94.28

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Code: NDA Project: 0

Date Received : 29-Jan-2026

Date Reported : 20-Feb-2026

Lab ID Number : 13472.3

Quality Control : nh

## COMPOSITION ANALYSIS

Sample Identification: Ware Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations
Bulk Density .....	lbs·ft <sup>3</sup>	-	42	1146 lbs/yd <sup>3</sup>
Total Solids (dry matter) .....	%	100.0	33.4	668 lbs/ton
Moisture Content .....	%	0.0	66.6	160 gals/ton
Water Holding Capacity ( <i>calc</i> ) .....	%	154	61	145 gals/ton
Inert and Oversize Particles .....	%	↔	15.0	299.2 lbs/ton
pH (sat. paste in H <sub>2</sub> O) .....	-logH <sup>+</sup>	↔	7.88	Medium High
Organic Matter (Volatile Solids) .....	%	46.9	15.6	Medium
Ash Residue Content .....	%	53.1	17.8	Medium
Conductivity (salinity) .....	dS·m <sup>-1</sup>	↔	2.8	Med Low
Carbon:Nitrogen (C:N) Ratio ( <i>calc</i> ) w:w		8.6	8.6	Low
Respiration, Volumetric ... (Solvita 1-8)		↔	6.30	Medium
Ammonia Volatization ... (Solvita 1-5)		↔	5.00	low or none
Compost Maturity Index ... (Value 1-8)		↔	6.2	Practical Maturity

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 Quality Control : nh

## MINERALS ANALYSIS

Sample Identification: Ware Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
<b>..... Solids and Nutrients .....</b>				
Total Solids (dry matter) .....	%	100.0	33.4	668 lbs/ton
Moisture Content .....	%	0.0	66.6	160 gals/ton
Total Nitrogen .....	%	2.570	0.858	17.2 MH
Phosphorus (P) <i>total</i> .....	%	0.250	0.084	1.7 L
<b>..... Extractable &amp; Total Cations .....</b>				
Ammonium (NH <sub>4</sub> -N) <i>soluble</i> .....	ppm	214	72	0.1
Potassium (K) <i>total</i> .....	%	0.42	0.14	2.8
Sodium (Na) <i>total</i> .....	%	0.12	0.04	0.8
Calcium (Ca) <i>total</i> .....	%	1.99	0.66	13.3
Magnesium (Mg) <i>total</i> .....	%	0.20	0.07	1.3

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Notes: percent x 10,000 = ppm; ppm = mg/kg;

# Woods End Laboratories LLC

150 Whitten Road  
 Augusta, ME 04330/USA  
 207-293-2457 www.woodsend.com lab@woodsend.com  
 Soil and Compost Testing since 1975

Account: 3367

Code: NDA-Project: 0

· Syed Dong  
 · Black Earth Compost  
 · 2 Hillside Road  
 · Gloucester MA 01930

Date Received : 29-Jan-2026  
 Date Reported : 20-Feb-2026  
 Lab ID Number : 13472.3

## METALS and NON-METALS ANALYSIS

Sample Identification: Ware Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	lbs/ton Rating <i>as is</i>
Moisture .....	%	0.0	66.6	
Total Solids .....	%	100.0	33.4	227 g/liter
Density .....	(kg·m <sup>3</sup> )	-	680	0.68 g/cc
Copper (Cu) .....	mg·kg <sup>-1</sup>	13	4	<0.1 Very Low
Manganese (Mn) .....	mg·kg <sup>-1</sup>	178	59	0.1 Medium
Iron (Fe) .....	mg·kg <sup>-1</sup>	3486	1164	2.3 Med Hi
Zinc (Zn) .....	mg·kg <sup>-1</sup>	17	6	<0.1 V Low
Lead (Pb) .....	mg·kg <sup>-1</sup>	23.0	7.7	7.0 L
Chromium (Cr) .....	mg·kg <sup>-1</sup>	16.5	-	-
Cadmium (Cd) .....	mg·kg <sup>-1</sup>	<4.0	-	-
Nickel (Ni) .....	mg·kg <sup>-1</sup>	10	-	-
Arsenic (As) .....	mg·kg <sup>-1</sup>	2.3	-	-
Mercury (Hg) .....	mg·kg <sup>-1</sup>	< 0.1	-	-
Selenium (Se) .....	mg·kg <sup>-1</sup>	< 1	-	-

..... **BACTERIOLOGIC ANALYSIS** .....

Fecal coliform . . . . .	MPN per g	< 3	-
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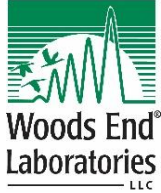
Notes: † "as is" = wet basis; mg·kg<sup>-1</sup> = ppm (parts per million); < signifies *less than MLD* (minimum level of detection)

‡ Rating of Metals Based on international standard

‡ Note: Metals Pb, Cr, Cd, Ni in grams/ton under Rating column

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END REPORT \*\*\*\*\*



# Woods End Research Laboratory, Inc.

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Account: 3367  
Black Earth Compost  
Syed Dong  
2 Hillside Rd Gloucester, MA  
01930  
9178335435

Code: Project: n/a

Date Reported : 20-Feb-26

## COMPOSITION ANALYSIS

Sample ID	13472.3	Compost: Ware	% Passing
Screen			
1"			100.00
3/4"			100.00
1/2"			95.60
3/8"			89.74
1/4"			85.04
1/8"			78.01



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Black Earth Compost  
Syed Dong  
2 Hillside Rd Gloucester,  
MA 01930  
9178335435

Code: Project: n/a

Date Reported : 20-Feb-26

## COMPOSITION ANALYSIS

Sample ID	13472.3	Compost: Ware	Result
	Germination %		3.33
	Vigor %		60.36