



## COMPOST SAMPLE SUBMISSION FORM

*See enclosed sheet for sampling information and instructions*

Name: _____ Address: _____ _____ State: _____ Zip: _____ Telephone: _____ Fax: _____ Email: _____ Sample Identification: _____	<i>Send additional copy of analysis to:</i> Name: _____ Address: _____ _____ State: _____ Zip: _____ Email: _____ <input type="checkbox"/> <b>Email report only:</b> <i>Check this box and record your email address if you would prefer your report sent to you by email rather than by surface mail. Emailed reports are received by customers 2-3 days earlier than mailed reports.</i>
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### ANALYSIS REQUEST

Please check test(s) requested and submit payment with your sample. Make checks payable to: *Penn State University*. See back of this form for sample size required.

**Compost Test Package\***

- 1A \$ 40.00
- 1B \$ 55.00
- 1C \$ 75.00
- 2A \$ 270.00
- 2B \$ 350.00
- 3A \$ 350.00
- 3A-no FC \$ 340.00
- 3B \$ 200.00

*\*See back for description of test packages*

**Optional Tests**

- Bulk Density \$ 12.00
- Particle Size \$ 45.00
- CO<sub>2</sub> Respirometry Test \$ 100.00
- Bioassay Test \$ 75.00
- Nitrate-Nitrogen \$ 15.00
- Faxing Reports (cost per page) \$ 1.00

**Total Cost: \$** \_\_\_\_\_

**Report Units:** Compost analysis results are reported on a weight basis. Results will also be reported on a volume basis (lb/yd<sup>3</sup>) if a bulk density analysis is requested (see above listing under optional tests) or if you provide us with the bulk density for the compost submitted. If you would like results reported on a volume basis and are not requesting a laboratory bulk density test, please provide the bulk density of your sample here: (Note: procedure for determining bulk density on-site is provided on the back of this form.)

*Producer-determined bulk density (lb/yd<sup>3</sup>):* \_\_\_\_\_

### SAMPLE INFORMATION

Sample submitted is	If sample is compost:		Intended use of this compost is <i>(Check all that may apply)</i>
	Check feedstocks utilized.	Check composting method used. Add any relevant information regarding composting method.	
<input type="checkbox"/> Feedstock <i>(list type in next column)</i> <input type="checkbox"/> Unfinished compost: <i>age in weeks:</i> _____ <input type="checkbox"/> Finished compost <input type="checkbox"/> Other: _____	<input type="checkbox"/> Grass clippings <input type="checkbox"/> Leaves <input type="checkbox"/> Straw <input type="checkbox"/> Manure <input type="checkbox"/> Food waste <input type="checkbox"/> Sewage Sludge <input type="checkbox"/> Woody material (wood chips, saw dust, etc.) <input type="checkbox"/> Spent mushroom substrate <input type="checkbox"/> Other _____	<input type="checkbox"/> Windrow, <i>Turning frequency:</i> _____ <input type="checkbox"/> Static Pile <input type="checkbox"/> Forced aeration <input type="checkbox"/> Passive aeration <input type="checkbox"/> In vessel <input type="checkbox"/> Vermicomposting <input type="checkbox"/> Backyard bin <input type="checkbox"/> Other _____ Additional Information: _____ _____	<input type="checkbox"/> Landscape mulch <input type="checkbox"/> Potting media <input type="checkbox"/> Nursery bed amendment <input type="checkbox"/> Home garden amendment <input type="checkbox"/> Turf topdressing/establishment <input type="checkbox"/> Agricultural soil amendment <input type="checkbox"/> Other _____ <input type="checkbox"/> Unknown

## COMPOST TEST PACKAGES

### Basic Compost Tests:

Compost Test 1A:	% Solids, % organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio...	\$40.00
Compost Test 1B:	Compost Test 1A plus ammonium nitrogen, phosphorus and potassium .....	\$55.00
Compost Test 1C:	Compost Test 1A plus ammonium nitrogen, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, and zinc.....	\$75.00

*Sample size required for Compost Tests 1A, 1B, or 1C: approximately 1 quart*

### Basic Compost Test Plus Pollutants

<u>Compost Test 2A:</u>	% Solids, % organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium nitrogen, phosphorus, potassium, calcium, magnesium, aluminum, iron, manganese, sodium, sulfur, arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, and zinc.....	\$270.00
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<u>Compost Test 2B:</u>	Compost Test 2A plus PCBs .....	\$350.00
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(Note: if compost contains sewage sludge and is for land application to meet EPA 503 regulations, Compost Test 2B is recommended.)

*Sample size required for Compost Tests 2A or 2B: approximately 1 quart*

### Compost Tests for U.S. Compost Council's Seal of Testing Approval Program

<u>Compost Test 3A:</u>	% solids, % organic matter, pH, soluble salts, total nitrogen, total carbon, carbon:nitrogen ratio, ammonium nitrogen, phosphorus, potassium, calcium, magnesium, arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, particle size (< 9.5 mm), respirometry test, bioassay, fecal coliform.....	\$350.00
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*Note: for fecal coliform test, sample must be shipped on ice by overnight mail and received by the laboratory no later than Thursday, 11:30AM of a given week.*

<u>Compost Test 3A- no fecal coliform:</u>	Same as Compost Test 3A but fecal coliform not included.....	\$340.00
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*Note: sample does not need to be shipped on ice.*

<u>Compost Test 3B:</u>	Compost Test 3A <u>without</u> EPA 503 pollutants (arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium and zinc) and <u>without</u> fecal coliform. ....	\$200.00
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*Sample size required for Compost Test 3A or 3B: approximately 2 quarts*

### Optional Tests

Bulk Density: .....	\$12.00
<i>(2- quart sample size required)</i>	
Particle Size: (2 in, 1 in., 5/8 in., 3/8 in., 1/8 in. sieves) .....	\$45.00
<i>(1- quart sample size required)</i>	
Respirometry: (CO <sub>2</sub> Evolution) .....	\$100.00
<i>(1- pint sample size required)</i>	
Biological Assay (Seedling Emergence and Relative Growth) .....	\$75.00
<i>(1- quart sample size required)</i>	
Nitrate Nitrogen .....	\$15.00

#### Bulk Density Procedure for On-Site Determination

**Materials:**

Sampling Shovel, 5-gallon bucket, scale (common bathroom scale is acceptable).

**Procedure:**

1. Fill 5-gallon bucket one-half full, taking samples from various depths within pile.
2. Drop bucket 10 times from height of 6 inches.
3. Fill remaining portion of bucket approximately one-half full and repeat dropping process.
4. Fill bucket to brim and repeat dropping process.
5. Fill bucket to brim one more time. Do not drop.

**Calculations:**

1. Weigh bucket and compost and record weight: \_\_\_\_\_ lb
2. Subtract 2 lbs from weight of bucket and compost to obtain net sample weight: \_\_\_\_\_ lb
3. Multiply net sample weight by 40 to convert to pounds/cubic yard: \_\_\_\_\_ lb/yd<sup>3</sup>
4. Record this number on the front of this form.