

DESCRIPTION

This work shall consist of furnishing and installing Leaf Compost in accordance with the contract documents and as directed by the Engineer. Leaf Compost is the product resulting from the controlled biological decomposition of deciduous leaves, occurring under aerobic conditions that has been sanitized through the generation of heat and Process to Further Reduce Pathogens (PFRP) as defined by the U.S. EPA (code of Federal Regulations Title 40, Part 503, Appendix B, Section B). Active composting is typically characterized by a high-temperature phase that sanitizes the product and allows a high rate of decomposition, followed by a lower-temperature phase that allows the product to stabilize while still decomposing at a slower rate. Leaf Compost should possess no objectionable odors or substances toxic to plants, and shall not resemble the raw material from which it was derived.

MATERIALS

The material shall consist exclusively of fallen deciduous leaf material. Compost material that contains food waste, sewage waste, or other waste material is unacceptable. The Leaf Compost shall be mature (actively composted for 6 months minimum, and temperature slightly above air temperature) and humic (organic material is no longer rapidly degrading). Mature compost material shall be a dark, friable, partially decomposed substance that has an earthy odor. Visible fibers should be short and dark with no discernable particles of leaf material. Because not all items decompose at the same rate screening may be necessary to remove larger partially decomposed material and/or undecomposed material.

Leaf Compost acceptable for this application must meet the properties described below:

Natural Inert Material -	<5% by dry weight of woody or green yard debris material.
Man Made Inert Material -	<1% by dry weight of man made material such as glass or plastic.
Bulk Density -	636 to 812 kg/m ³
Particle Size -	100% passing 12.5mm (1/2 inch) sieve 0% passing 1.18mm (no.16) sieve
Moisture Content -	30% to 60% by total weight
Organic Content -	25% to 100% by dry weight

Acceptance of Leaf Compost will be based upon the test results unless otherwise specified.

TESTING

There are two testing options:

- 1.) Material tests required by this specification will be done by the Department in conformance with the procedures contained in the appropriate publications or test methods current on the date of advertisement for bids.
- 2.) The physical properties are in accordance with the United States Department of Agriculture and the United States Composting Council, "Test Methods for Examination of Composting and Compost" (TMECC). Before delivery of the Leaf Compost, provide a copy of the lab analysis, less than four months old, performed by a United States Composting Council Seal of Testing Assurance program approved lab.

SAMPLING

Department lab tested: Leaf Composting sampling shall follow the Sampling Procedure for Stockpiled Topsoil described in MURK 1B, Construction Inspection Manual, Section 713, with the exception that the "Topsoil Documentation Form" cannot be used for Leaf Compost. In lieu of the "Topsoil Documentation Form" the "Leaf Compost Documentation Form" contained in this specification shall be used.

TMECC: There are no sampling requirements for Leaf Compost received from a compost producer that tests their compost using a United States Composting Council Seal of Testing Assurance program approved lab.

CONSTRUCTION DETAILS

Leaf Compost shall be furnished and placed at the locations and to the depth as shown in the contract plans. Leaf Compost must be dry at time of placement and shall not be compacted.

METHOD OF MEASUREMENT

This work will be measured as the number of cubic meters of Leaf Compost satisfactorily placed. Leaf Compost must be dry at time of measurement.

BASIS OF PAYMENT

The unit price bid for Leaf Compost satisfactorily furnished and placed shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.

DISAPPROVED BY E12000

LEAF COMPOST DOCUMENTATION FORM

SECTION A

PROJECT IDENTIFICATION		STOCKPILE DATA	
Contract No. : _____ P.I.N. : _____		Location: _____ _____ _____	
Contract Quantity _____ cubic meters		Remarks: _____ _____ _____	
County _____		Item No. _____	
Region _____		Stockpile Quantity Cubic Meters _____	

SAMPLED BY:

NAME: _____ TITLE: _____ DATE: _____

SECTION B

TEST RESULTS			
Regional Sample No.			
G.E.B. Lab No.			
% Natural Inert Material			
% Man Made Inert Material			
Bulk Density, kg/m ³			
% Passing 12.5mm			
% Passing 1.18mm			
% Moisture Content			
% Organic Content			
Tested by: _____		Title _____	Date: _____
Checked by: _____		Title _____	Date: _____
GEB Results Approval: _____		Title _____	Date: _____

SECTION C

APPROVAL: The test results indicate that the material represented by this sample(s) numbered _____ meets the quality requirements specified for Leaf Compost on the project identified above, and is acceptable for use subject to the following conditions:

NAME: _____ TITLE: _____ DATE: _____

REJECTION: The test results indicate that the material from this stockpile is not acceptable for use as Leaf Compost.

NAME: _____ TITLE: _____ DATE: _____

INSTRUCTIONS:

ORIGINATOR -
Complete Section A
Retain one copy
Submit one copy with sample to:
NYS DOT Labs
Attn: General Soils Laboratory
50 Wolf Road, Albany, N.Y. 12232

GEOTECHNICAL BUREAU-
Complete Section B
Mail form to:
Regional Landscape Architect
at Region shown

REGIONAL LANDSCAPE ARCHITECT-
Complete Section C
Retain one copy of the form
Forward one copy to the E.I.C.