

July 1, 2010

REVISION OF SECTION 212
COMPOST

NOTICE

This is a standard special provision that revises or modifies CDOT's *Standard Specifications for Road and Bridge Construction*. It has gone through a formal review and approval process and has been issued by CDOT's Project Development Branch with formal instructions for its use on CDOT construction projects. It is to be used as written without change. Do not use modified versions of this special provision on CDOT construction projects, and do not use this special provision on CDOT projects in a manner other than that specified in the instructions unless such use is first approved by CDOT's Standards and Specifications Unit. The instructions for use on CDOT construction projects appear below.

Other agencies which use the *Standard Specifications for Road and Bridge Construction* to administer construction projects may use this special provision as appropriate and at their own risk.

Instructions for use on CDOT construction projects:

Use in projects having soil conditioning

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Section 212 of the Standard Specifications is hereby revised as follows:

In subsection 212.02 (b) 2., delete the first paragraph and replace with the following:

2. Soil Conditioner: Soil conditioner shall consist of compost, biological nutrient, biological culture or humic acid based material.

In subsection 212.02 (b) 2., delete the third paragraph and replace with the following:

Compost shall be weed-free, organic compost derived from a variety of feed stocks including agricultural, biosolids, forestry, food, leaf and yard trimmings, manure, tree wood with no substances toxic to plants. Material shall be aerobically composted in a facility permitted by the Colorado Department of Public Health and Environment (CDPHE) to produce or sell compost in accordance with House Bill (HB) 1181. The Contractor shall submit a copy of this permit to the Engineer for approval and the project records. The compost shall be tested in accordance with the U.S. Composting Council's Test Methods for Examining of Composting and Compost (TMECC) manual.

The compost manufacturer shall be a participating member of in the U.S. Composting Council's Seal of Testing Assurance Program (STA). The Contractor shall provide a participation certificate and test data on a Compost Technical Data Sheet.

Compost shall have the following physical properties:

Compost Parameters	Reported as	Requirements	Test Method
pH	pH units	6.0 – 8.5	TMECC 04.11-A
Soluble salts (Electrical Conductivity)	dS m ⁻¹ or mmhos cm ⁻¹	Maximum 10dS/m	TMECC 04.10-A
Moisture content	%, wet weight basis	30 – 60%	TMECC 03.09-A
Organic matter content	%, dry weight basis	30 - 65%	TMECC 05.07-A
Particle size (sieve sizes)	%, dry weight basis for each sieve fraction	<u>Passing</u> 1 inch – 100% ½ inch – 95%	TMECC 02.02-B
Man-made inert contamination	%, dry weight basis	< 1%	TMECC 03.08-A
Stability (respirometry)	mg CO ₂ -C per g TS per day mg CO ₂ -C per g OM per day	8 or below	TMECC 05.08-B
Select Pathogens	(PASS/FAIL) Limits: Salmonella <3 MPN/4grams of TS, or Coliform Bacteria <1000 MPN/gram	Pass	TMECC 07.01-B Fecal Coliforms, or 07.02 Salmonella
Trace Metals	(PASS/FAIL) Limits (mg kg ⁻¹ , dw basis): As 41, Cd 39, Cu 1500, Pb 300, Hg 17, Ni 420, Se 100, Zn 2800	Pass	TMECC 04.06
Maturity (Bioassay)			
Percent Emergence	%, (average)	> 80%	TMECC 05.05-A
Relative Seedling Vigor	%, (average)	> 80%	

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In subsection 212.02 (b), delete the third paragraph and replace with the following:

The Contractor shall provide a CTR in accordance with subsection 106.13 confirming that the material had been tested in accordance with TMECC.

Subsection 212.06 (b) shall include the following, after the last sentence:

No measurable quantity of organic amendment shall be present on the surface after incorporation.

Subsection 212.07 shall include the following:

When soil conditioner is measured and paid for separately, it will be paid for as Soil Conditioning and shall be the actual number of acres to which soil conditioner is applied.