Procedure Checklist
FM 1-T 267 Determination of Organic Content in Soils by Loss on Ignition

		P	F	N/A
Sample Preparation				
1.	Minus No. 10 (2.00-mm) material obtained in accordance with AASHTO R-58			
2.	Representative sample of minus No. 10 material obtained at least 100 g after thorough mixing			
3.	Sample placed in container and dry in oven at 230ºF ± 9ºF (110ºC ± 5ºC) until constant mass			
4.	Sample placed in desiccator to cool or allowed to remain in oven until ready to proceed			
Procedure				
5.	Select sample of 10-40 g and place in tared crucible or evaporating dish			
6.	Record mass to nearest 0.01 g			
7.	Apply Note 2 (for lightweight materials) where necessary			
8.	Crucible or dish placed in muffle furnace for 6 hours at 833ºF ± 18ºF (455ºC ± 10ºC)			
9.	Sample placed in desiccator to cool			
10.	Mass of cooled sample recorded to nearest 0.01 g			
Calculations				
11.	Calculate the organic content of the soil to the nearest 0.1 percent as follows: $$\mathbf{OC} = \frac{A - B}{A - C} \times 100$$ OC = organic content (%) A = mass of crucible or dish and oven-dried soil, before ignition (g) B = mass of crucible or dish and oven-dried soil, after ignition (g) C = mass of crucible or evaporating dish to nearest 0.01 g			
12.	Report the organic content to nearest 0.1 percent.			

Remarks: **Comparison Criteria:** N/A

Date:_____ Technician:_____IA Observer:_____

Technician's E-mail Address: _____

Employer's/ Supervisor's E-mail Address: _____