

U.S. Army Corps of Engineers (USACE)

SPECIFIC GRAVITY TEST

For use of this form, see EM 1110-2-1906; the Proponent agency is CECW-EC.

Purpose: This purpose of this form is to document specific gravity testing.

Date: _____

Project: _____

Boring No.: _____

Specific Gravity of Solids (G)

Sample or Specimen No.							
Flask No.							
Temperature of water and soil, T, C ^o							
Dish No.							
Weight in Grams	Dish + dry soil						
	Dish						
	Dry soil	W_s					
	Flask + water at, T, C	W_{bw}					
	$W_s + W_{bw}$						
	Flask + water + immersed soil	W_{bws}					
	Displaced water, $W_s + W_{bw} - W_{bws}$						
Correction factor	K						
$(W_s \times K) / W_s + W_{bw} - W_{bws}$		G_s					

Apparent (G_a) and Bulk (G_m) Specific Gravity

Sample or Specimen No.							
Temperature of water and soil, T, C ^o							
Weight in Grams	Tare + saturated surface-dry soil						
	Tare						
	Saturated surface-dry soil	B					
	(Wire basket + soil) in water						
	Wire basket in water						
	Saturated soil in water	C					
	Tare + dry soil						
	Tare						
	Saturated soil in water	A					
Correction factor	K						
$(AK) / (A-C)$	(Apparent)	G_a					
$(AK) / (B-C)$	(Bulk)	G_m					

Remarks:

Technician: _____ Computed By: _____ Checked By: _____