



GEOTECHNICAL EVENT SOIL PROPERTIES

SIEVE ANALYSIS

The following table shows the results for the sieve analysis for the soil sample. The graph of the data is located below.

<i>Sieve Analysis</i>				
Sieve	Sieve Size (mm)	Sieve Size (in)	Retained	Passing
#12	1.700	0.0661	0.4%	99.6%
#18	1.000	0.0394	17.9%	82.1%
#20	0.858	0.0330	29.9%	70.1%
#40	0.425	0.0167	79.3%	20.7%
#80	0.180	0.0070	98.6%	1.4%
#100	0.150	0.0059	99.4%	0.6%
Pan	-	-	100.0%	0.0%

Table 1-Sieve Analysis

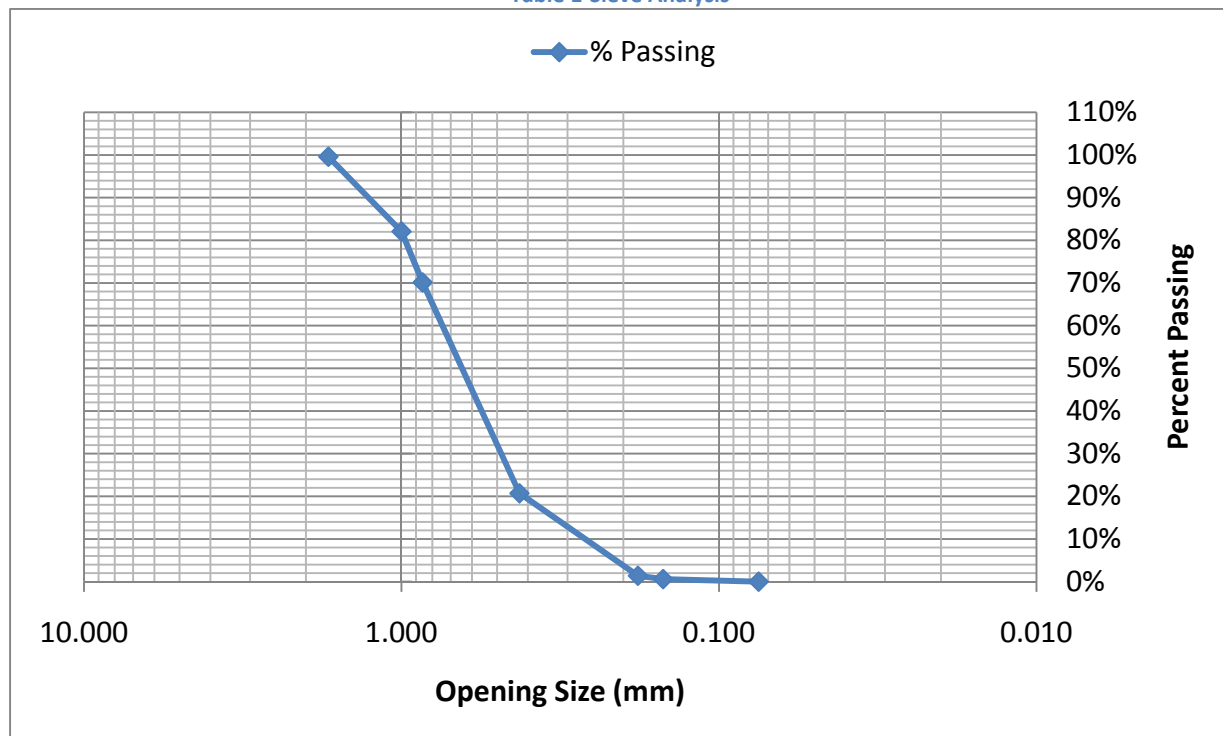


Figure 1-Sieve Analysis

GENERAL PROPERTIES

The following table shows some of the general properties for the soil sample. The maximum density and specific gravities were obtained by using the modified proctor test with a dry soil sample.

Soil Properties	
Loose Density (lb/ft ³)	148
Maximum Density (lb/ft ³)	175
Loose Specific Gravity	2.37
Maximum Specific Gravity	2.85
D ₁₀ Effective Size (mm)	0.26
D ₃₀ (mm)	0.50
D ₆₀ (mm)	0.72
Uniformity Coefficient (C _u)	2.77
Coefficient of Gradation (C _c)	1.34
Soil Classification (USCS)	SP

Table 2-General Properties

SHEAR STRESS

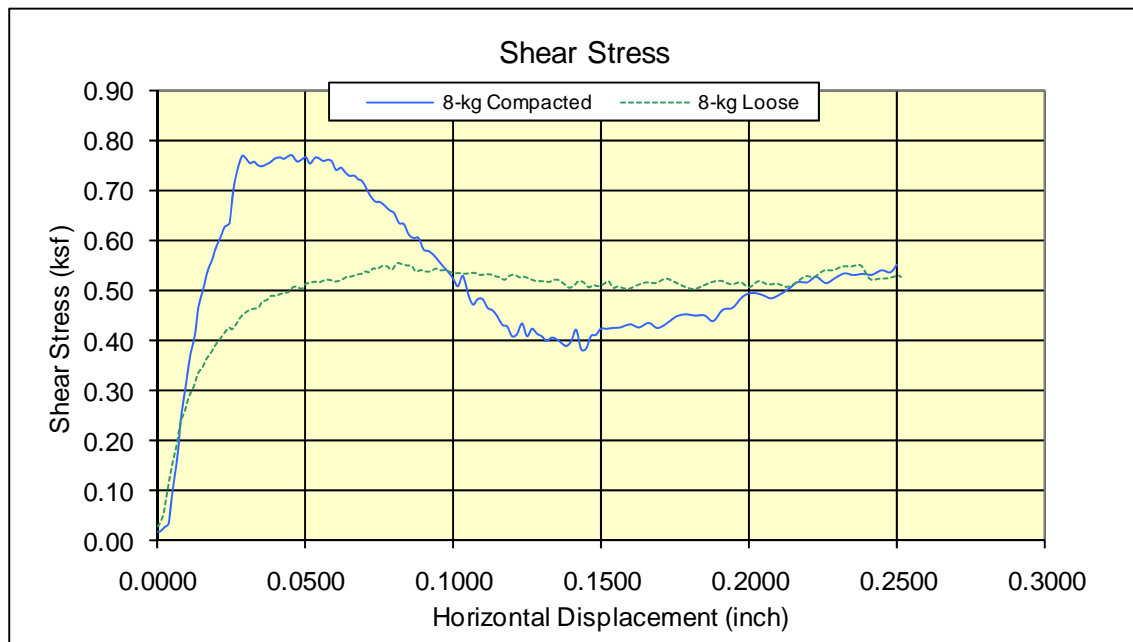


Figure 2-Shear Stress (8 kg Normal Load)

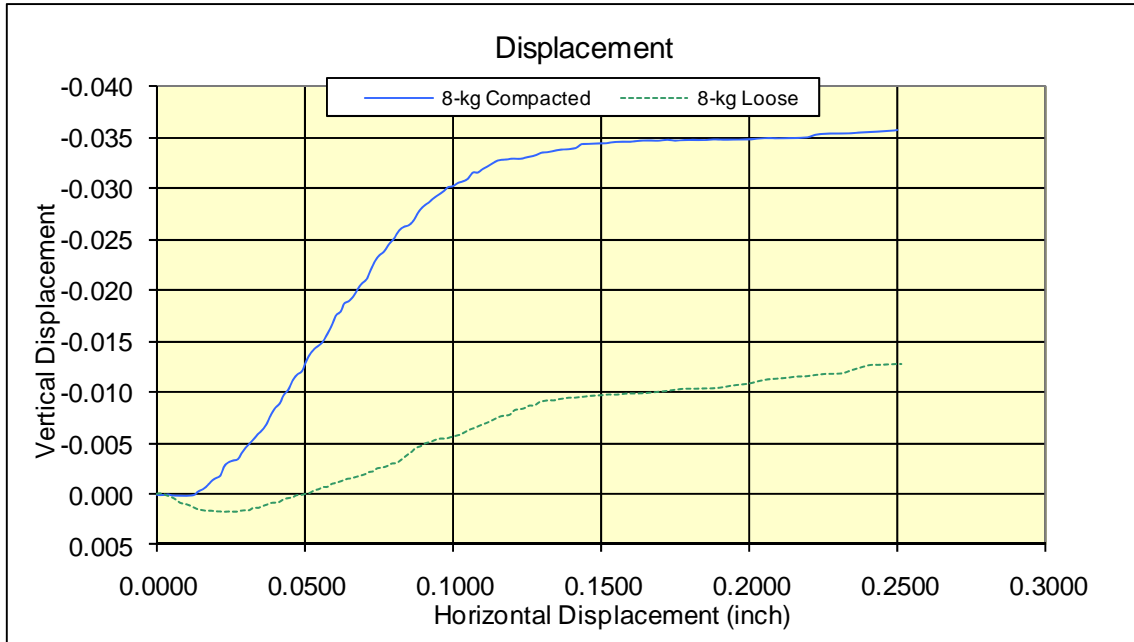


Figure 3-Displacement (8 kg Normal Load)

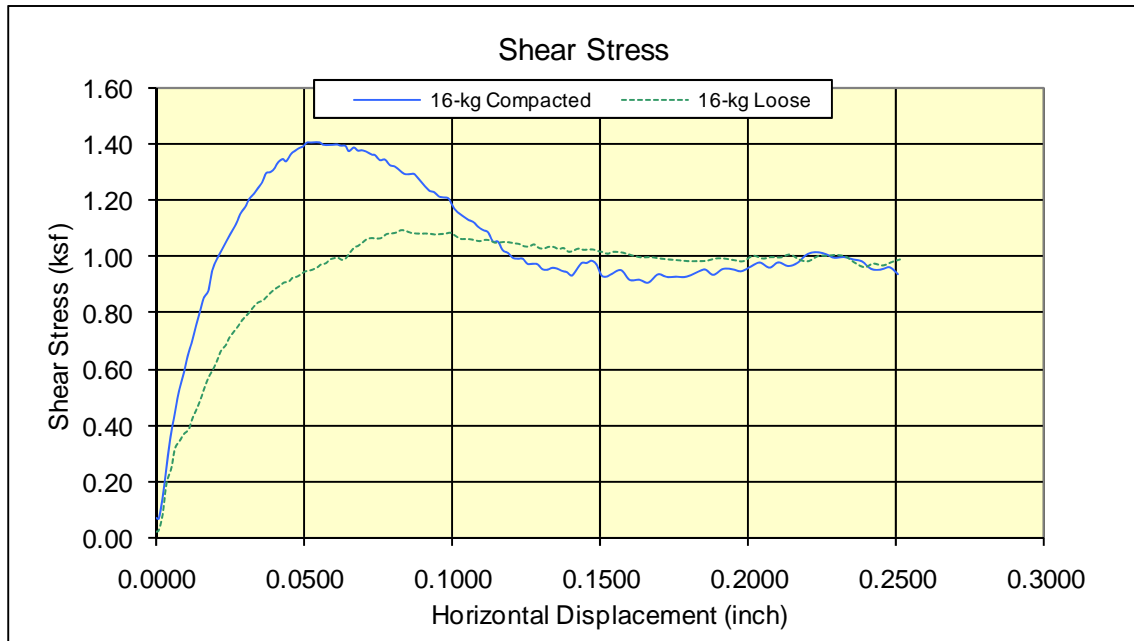


Figure 4-Shear Stress (16-kg Normal Load)

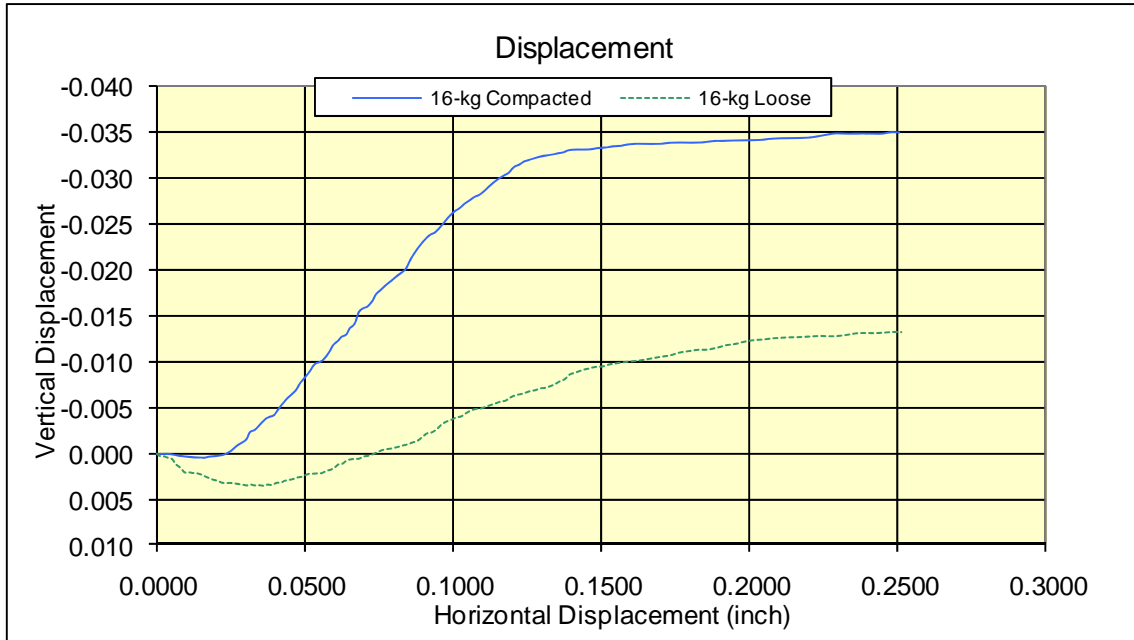


Figure 5-Displacement (16-kg Normal Load)

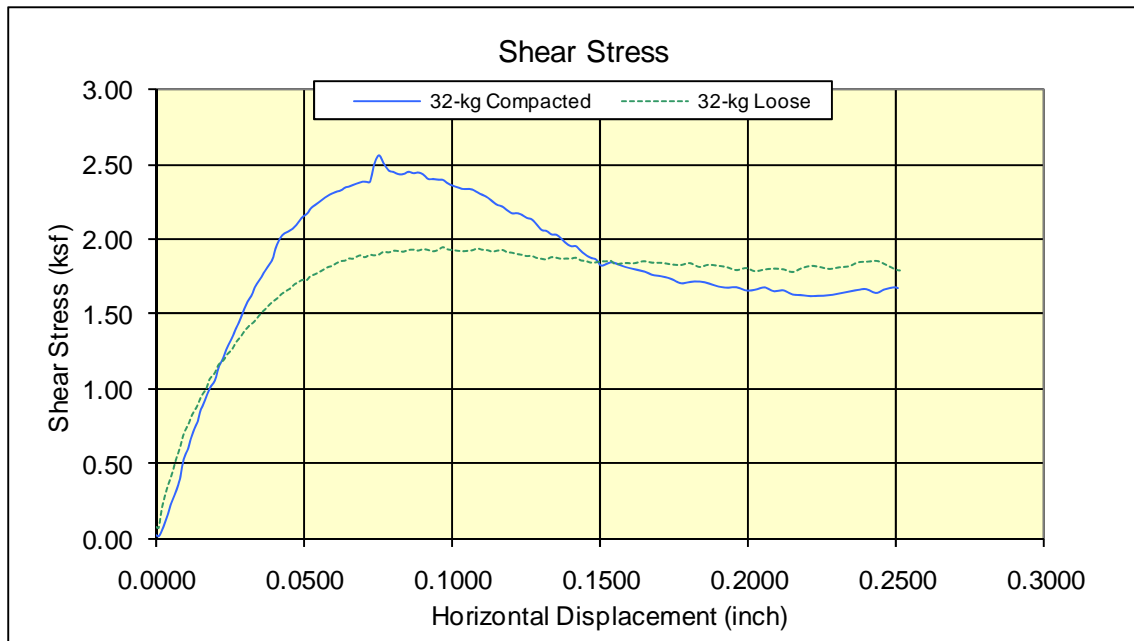


Figure 6-Shear Stress (32-kg Normal Load)

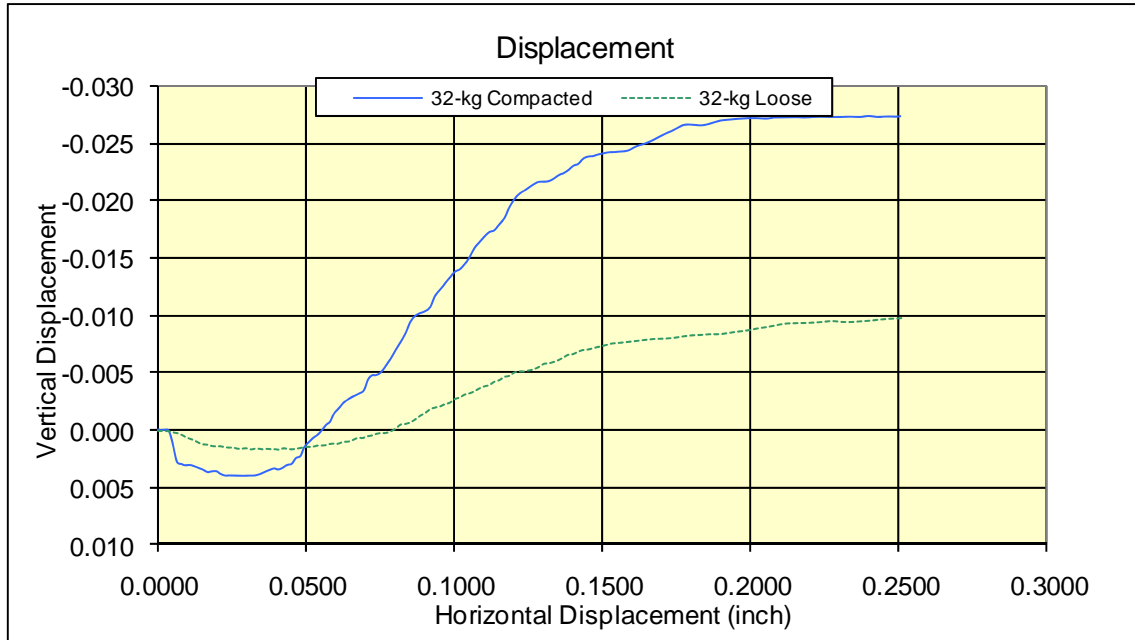


Figure 7-Displacement (32-kg Normal Load)

PHOTOS



