

Project No. 241359
 Boring No. B-004-0-24
 Depth 7.0 - 9.0'

Slope from s vs σ' Graph= 0.5418

$\phi = 28.4$

	Shear Strength	Normal Stress
Trial 1	6.6	7.0
Trial 2	10.4	14.0
Trial 3		

TRIAL 1

Initial Moisture Content

Mass of Container, gm	133.2
Initial mass Container + Soil, gm	431
Final Mass Container + Soil, gm	382.7
Mass of Soil, gm	249.5
Moisture Content, %	19.4

Initial Dry Unit Weight

Initial Height, in.	1.000
Mass Shear Box, gm	1222.7
Shear Box + Soil, gm	1390.4
Mass of Soil, gm	167.7
Unit Weight, pcf	109.0

Final Moisture Content

Mass of Container, gm	51.1
Initial mass Container + Soil, gm	225.4
Final Mass Container + Soil, gm	192.5
Mass of Soil, gm	141.4
Moisture Content, %	23.3

Final Dry Unit Weight

Final Height, in.	0.981
Mass Shear Box, gm	1222.7
Shear Box + Soil, gm	1397.0
Mass of Soil, gm	174.3
Unit Weight, pcf	111.9

TRIAL 2

Initial Moisture Content

Mass of Container, gm	133.2
Initial mass Container + Soil, gm	431
Final Mass Container + Soil, gm	382.7
Mass of Soil, gm	249.5
Moisture Content, %	19.4

Initial Dry Unit Weight

Initial Height, in.	1.000
Mass Shear Box, gm	1222.7
Shear Box + Soil, gm	1390.8
Mass of Soil, gm	168.1
Unit Weight, pcf	109.3

Final Moisture Content

Mass of Container, gm	52.1
Initial mass Container + Soil, gm	226.1
Final Mass Container + Soil, gm	193.8
Mass of Soil, gm	141.7
Moisture Content, %	22.8

Final Dry Unit Weight

Final Height, in.	0.963
Mass Shear Box, gm	1222.7
Shear Box + Soil, gm	1396.7
Mass of Soil, gm	174
Unit Weight, pcf	114.1