



SOIL MECHANIC LABORATORY
FACULTY OF CIVIL ENGINEERING AND PLANING
INDONESIAN ISLAMIC UNIVERSITY
Jl. Kaliurang KM. 14,4 Telp. (0274) 895042 Yogyakarta 55584.

UJI GESER LANGSUNG UU

Proyek : Tugas Akhir
 Lokasi Tanah : Tembilahan, Riau
 Kode sampel : Tanah Gambut + *Portland Cement* 7% + *Gypsum* 15% (Sampel 1)
 Dikerjakan : Aldesra Azria Lisananda
 Tanggal : 2 Juli 2018

Data Sampel	
Diameter (cm)	6
Luas (cm ²)	28.27433
Tinggi (cm)	2
Volume (cm ³)	56.54867
Berat cincin (gr)	43.07

kalibrasi ring = 0.44 kg/div

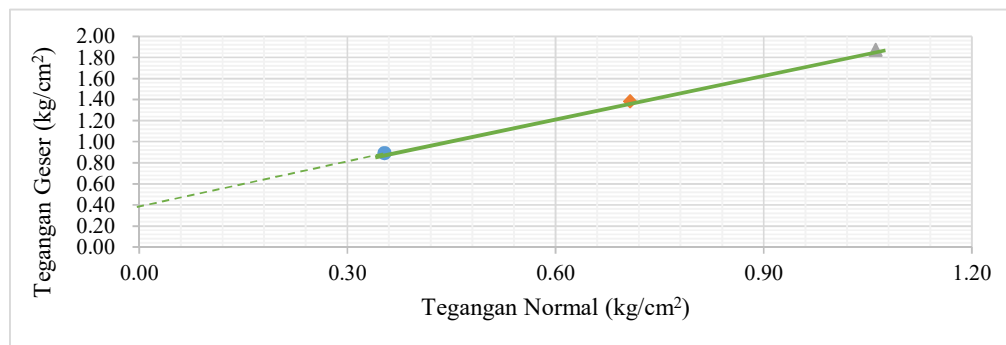
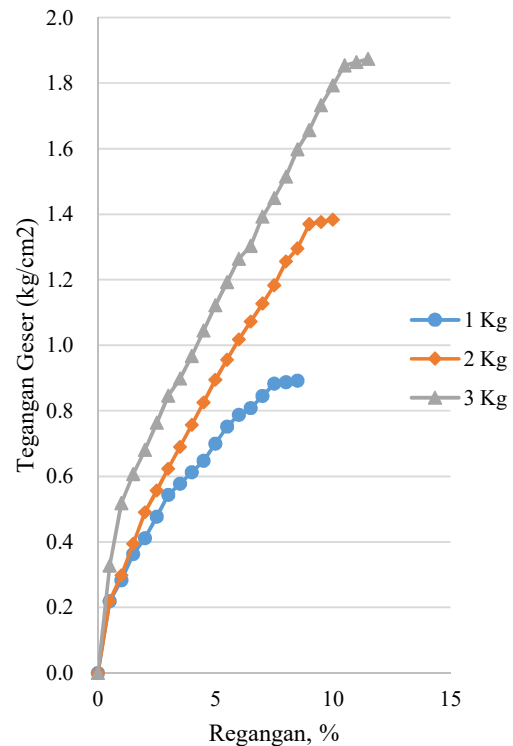
Kadar air

Berat Cawan, gr	9.2	8.95	8.83
Berat Cawan + Tanah Basah, gr	16.78	16.76	17.56
Berat Cawan + Tanah Kering, gr	13.65	13.51	13.95
Kadar Air, %	70.337	71.2719	70.5078
Kadar Air Rata-rata, %	70.706		

Berat tanah + ring, gr	92.47	92.7	92.75
Berat volume (gr/cm ³)	0.8736	0.87765	0.87854
Berat volume kering (gr/cm ³)	0.5129	0.51243	0.51525

Tegangan Normal σ_n (kg/cm ²)	0.3537	0.70736	1.06103
Tegangan geser maks τ (kg/cm ²)	0.8916	1.38346	1.87358

Sudut geser ϕ	54.2330	°
Kohesi	0.4006	kg/cm ²



Mengetahui,
 Kepala lab. Mekanika Tanah
 Universitas Islam Indonesia

(Ir. Akhmad Marzuko, M.T.)

Yogyakarta, 13 Agustus 2018
 Peneliti,

(Aldesra Azria Lisananda)