

ABSTRAK

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Akibat Pembasahan Dan Pengeringan Setelah Dipadatkan

Kuat geser tanah gambut merupakan salah satu faktor yang perlu diperhatikan dalam perancangan pondasi atau *subgrade* pembangunan jalan khususnya di daerah yang banyak mengandung tanah gambut. Metode yang digunakan adalah pengambilan sampel tanah gambut Desa Tampan Riau yang dipadatkan dengan 3 (tiga) kondisi persiapan sampel yaitu kondisi *undisturbed*, pembasahan, dan pembasahan pengeringan sebelum pengujian triaksial *consolidated undrained*. Efek dari pemadatan, pembasahan, dan pengeringan diamati dari grafik hubungan tegangan deviator-tegangan efektif; perubahan tekanan air pori-regangan; dan tegangan deviator-regangan kemudian hasilnya dibandingkan pada tiap-tiap kondisi dan kadar air pemadatan.

Kata kunci:

Tanah Gambut, Pemadatan, Kuat Geser, Triaksial *Consolidated Undrained*

ABSTRACT

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Study Program : Civil Engineering
Title : Behavior of Peat Soil Shear Strength With Triaxial
Consolidated Undrained Test With Wetting And Drying After
Compacted

The shear strength is one of factor that important to know in foundation engineering or road construction subgrade especially in organic soil area. This method of research used gambut soil from Tampan Village in Riau that compacted and there are 3 (three) conditions preparation of it, there are undisturbed sample, wetting process, and wetting drying process before triaxial consolidated undrained test. The effect of compaction, wetting, and drying will be shown in the graphics relation between deviatory stress-effective stress; pore water stress-strain; and deviatory stress-strain, finally the data results for each different conditions and water contents compaction will be compared.

Keywords :
Gambut Soil, Compaction, Shear Strength, Triaxial Consolidated Undrained