

Engineering properties of weathered granite profiles - a preliminary study

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Four profiles of weathered granite from Kuala Lumpur - Karak Highway and several borehole data from proposed Mengkuang Dam, Bukit Mertajam, were used for this preliminary study. The samples from various depths along weathered granite profiles were taken and their basic engineering properties investigated. The results show that some engineering parameters were insensitive toward the development of weathering profiles. However the others, for instance the Atterberg limits and grain size distribution are valuable parameters for the development of the weathering profiles.

Weathered granitic soil has been used extensively as "construction material" in this region. It has been used as core and shoulder materials for the earth-filled dam and as filled materials for other engineering projects. Therefore, the investigation of their properties in relation to the development of weathering profiles is significant. Further research in this field will hopefully provide a more detailed and practical engineering classification of weathered rocks.