

**Modified oedometer for arid, saline soils**

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**Abstract:** Recent work conducted on a sabkha indicated that the conventional oedometer apparatus was incapable of detecting the collapse potential. This study proposes a modification to the conventional oedometer to allow the water to percolate through the soil sample under a constant head. Tests indicate that sabkhas have a collapse potential that can be classified as trouble. This collapse is primarily ascribable to the dissolution of NaCl, leaching of calcium and soil grain adjustment. -from Authors