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Behavior of Pipe Piles in Sand: Plugging & Pore-Water

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One of the major difficulties in predicting the capacity of pipe piles in sand has resulted from a lack of understanding of the physical processes that control the behavior of piles during installation and loading. This monograph presents a detailed blue print for developing experimental facilities necessary to identify these processes.

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Behavior of Pipe Piles in Sand - Plugging & Pore-Water  
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These facilities include a unique instrumented double-walled pipe-pile that is used to delineate the frictional stresses acting against the external and internal surfaces of the pile. The pile is fitted with miniature pore-pressure transducers to monitor the generation of pore water pressure during installation and loading.

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This research focuses on studying the effects of soil movement on the behavior of an existing pile driven in sandy soil. A physical model has been manufactured to investigate the effect of construction of an embankment adjacent to free head single pile driven in sand of dry unit weight of  $13.5 \text{ kN/m}^3$ . The model pile of diameter (D) of 10 mm are tested under two conditions of loading: loaded ...

Behavior of passive single pipe pile in sandy soil - NASA/ADS

Behavior of Sand Plugs in Open Ended Steel Pipe Piles In: Proc 9th Int Conf on Soil Mechanics and Foundation

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Engineering, Tokyo, pp 601-604 (1977) Kishida, H., Uesugi, M., Susumu, M. : Behavior of Dry Sands in Steel Pipe Piles In: Proc 8th Southeast Asian Geotechnical

Behavior of Pipe Piles in Sand : Plugging and Pore-Water ...

Effects in the End Bearing Capacity of Open-Ended Piles in Sand, Paper No 7975-MS (1996),

doi:10.4043/7975-MS Iskander, M.G., Olson, R.E.:

Review of API Guidelines for Pipe Piles in Sand In:

Proc., Civil Engineering in the Oceans V, ASCE, pp

798-812 (1992) Kishida, H., Isemoto, N.: Behavior of

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Steel pipe piles are economical for long piles into deeps loose soil. Because of the relative strength of steel, steel piles withstand driving pressure well and are usually very reliable end bearing members, although they are found in frequent use as friction piles as well. The common types of steel piles have rolled H, rectangular and circular cross-section (pipe piles). At the earlier time, the capacity of pile groups was taken as equal to the sum of the capacities of the individual piles.

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Behavior of Pile Groups Subjected to Vertical Loading  
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This video illustrates the soil plugging process of open-ended pipe piles during driving. Model piles with inner diameters of 15 mm and 34.5 mm were driven into loose sands with relative density ...

Soil plug behavior of open-ended pipe piles during installation - In loose sand (HD video)

One of the major difficulties in predicting the capacity of pipe piles in sand has resulted from a lack of understanding of the physical processes that control the behavior of piles during installation and loading. This monograph presents a detailed blue print for

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developing experimental facilities necessary to identify these processes.

Behavior of Pipe Piles in Sand: Plugging & Pore-Water

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Abstract. Both the driving response and static bearing capacity of open-ended piles are affected by the soil plug that forms inside the pile during pile driving. In order to investigate the effect of the soil plug on the static and dynamic response of an open-ended pile and the load capacity of pipe piles in general, field pile load tests were performed on instrumented open- and closed-ended piles driven into sand.

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Behavior of Open- and Closed-Ended Piles Driven Into Sands ...

The seismic behavior of pile-soil systems has been investigated frequently in the ... The piles simulated 430 mm diameter by 13 m long pipe piles founded in medium loose ( $D_r = 33\%$ ) and medium ...

(PDF) Lateral Behavior of Pile Groups in Layered Soils  
The creep behavior of the test piles in frozen soil was dependent on the applied creep stress and the frozen ground temperature. The pile creep rates increased when the ground exposure temperature increased, even under a constant creep loading condition.

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Pull-Out Capacity and Creep Behavior of Helical Piles in ...

Develop the experimental facilities necessary to identify the physical mechanisms which control the behavior of piles during installation and subsequent loading. Perform load tests to identify the effects of the installation process on the capacity of pipe piles in sand, with emphasis on the phenomenon of pile plugging.

An Experimental Facility to Model the Behavior of Steel ...

Abstract. The embankment slope is vulnerable to slip and collapse, when prestressed concrete pipe (PCP)

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pipes are used to reinforce the inclined soft foundation to bear the load of the embankment. Accordingly, this study puts forward new programs for strengthening embankment foundation with inclined, rather than vertical, PCP piles.

## Reinforcement Effect of Inclined Prestressed Concrete Pipe ...

One of the major difficulties in predicting the axial capacity of pipe piles in sand has resulted from a lack of understanding of the physical processes which control the behavior of piles during installation and loading. The objective of this research is to develop the experimental facilities necessary to identify these

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Two test piles, test piles 1 and 2, showed a load-settlement behavior with longer elastic region, while other two test cases, test piles 3 and 4, showed different behaviors. This also can be caused by the different degree of lost circulation of cement milk and various pile tip condition, shown in supplementary site investigation.

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