

NED UNIVERSITY JOURNAL OF RESEARCH

EXPERIMENTAL STUDIES OF VERTICAL DYNAMIC STIFFNESS OF SINGLE FLOATING PILES UNDER LOW AMPLITUDE OF DYNAMIC FORCE

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Volume: **1**

No: **3**

Pages: **1-15**

Date: **January 1995**

Abstract:

This paper describes the experimental studies of vertical dynamic stiffness of single piles subjected to small amplitude of vibrations with constant dynamic load. The test results were correlated with the static load test results that had been carried out on the same piles. The ratio of dynamic to static stiffness mainly falls between 1.2-1.4. The dynamic stiffness measurements were compared with the theoretical stiffness parameter presented by Novak [5]. It was found that theory predicted the stiffness parameter very well when the shear wave velocity at the pile tip increased 4 to 7 times the shear wave velocity of soil determined from the pile Static load test.

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