

## Abstract

This work looks into geotechnical conditions in Vodochody Airport area. In this work research into available literature, sampling and laboratory processing of the samples were conducted. Based on the results of laboratory examinations, evaluation of suitability of the tested materials from the viewpoint of corresponding standards was accomplished. Two geological cross sections were also constructed.

Basic classification analysis and additional tests after ČSN 73 6133, Chapter 4 were conducted. Results show that after compaction the quaternary fluvial deposits which cover the examined area can be used in subbase of the airport road system. Other constructions, which do not require deep foundation methods, can too be founded on this soil with no complications.

Lastly the work points out several problems which may occur in the area and presents findings that will need to pay attention to in case of further exploration.