

SITE INVESTIGATION

By

Lenos Kofinas

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SUMMARY

The site investigation is a comprehensive study that may cover all aspects of the site conditions. Its extent and type depend on the site conditions of each particular site, on the type of the proposed structure and very often on the budget approved for the investigations.

Site investigation may be required not only for new works, but also for the extension of existing ones, for damaged works, for the safety of existing works etc.

The desk study involving collection and assessment of existing available data and the site inspection prior to the exploration programme preparation is an essential part of the site investigation. A preliminary study is usually carried out and if the project is proved to be feasible the detailed study follows.

Engineering geological survey, followed by excavation of trial pits, trenches or adits and the necessary number of borings in combination with in situ testing are the most common techniques of site investigation.

The evaluation of all the data obtained in combination with the existing ones are incorporated in a technical report with the conclusions and recommendations of the geotechnical engineer.

The objectives of this project are:

- To discuss the importance of site investigation
- To give details of procedures, equipment and plant used in the site investigation of civil engineering works
- To discuss the in situ-tests usually carried out during a site investigation
- To make a survey about procedures and extend of site investigation in Cyprus.

The results of a site investigation are presented in this work as a case study. The writer has involved all the stages of site investigation including the preparation of the technical report.

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