

Muhammad Abdullah

ID 7796

Section A

Geotech "Assignment"

Assignment

Geotechnical Report

Introduction:

This geotechnical site investigation was carried out in Swabi Pakistan.

The aim of this project is providing of geotechnical data for the design & construction of metal soils.

This project seek to analyze all the site data including insitu and laboratory test.

Site - description:

The site description of the area under investigation, the location of borehole and CPT verticals that can be shown here.

Method:

To provide a geotechnical model of the site investigation were carried out independent observation from different test were than used in identifying and characterized the deposits of soil in the ground & produce a ground model for geotechnical analysis.

In-situ tests:

- * Cone penetration test
- * standard penetration test

Problems encountered:

After some test result, load testing performed on some of these initial pile indicated large E_p unacceptable settlement

- * A minimalist approach to geotechnical engineering investigation E_p testing which is not out of step with standard practice.
- * Not seeking additional geotechnical engineering advice once the building location had altered.
- * Not keeping the geotechnical engineering consultant involved in all stages of the project.

Muhammad Abdullah

ID 7796

Section A

Greotech "Quiz"

Quiz

Different softwares use in Geotechnical Engineering

Following are the softwares that used in geotechnical engineering

1 Apile:

Apile is used to compute the axial capacity as a function of depth, of a driven pile in clay, sand or mixed soil profile.

2 ALp99:

Axially loaded pile supported by elasto-plastic spring.

3 Rockplane:

Rockplane is a software tool used

For evaluation of localized instability of rocky element effected by seismic moments & by presence of water.

4 YDEEP:

This software is fully integrated with a design software package for automatic model. It is a virtual reality software for deep excavation.

5 ALLECALL:

The program analysis the behavior of the rock slopes under seismic condition. It evaluates the displacement of rocks block subject to dynamic forces.

6 ADONIS:

ADONIS is free finite element software for geo-engineers.

7 Alp:

The easy way to analyze soil structure interaction of a laterally loaded pile when it come to laterally pile loaded design software.