

Site Exploration and Characterization

QUESTIONS AND PRACTICE PROBLEMS

Introduction

- 3.1** Define site exploration and site characterization.

Solution

Site exploration is the exploration of the subsurface using borings and other techniques to identify the materials in the subsurface. Site characterization is to characterize the properties of the subsurface materials by testing recovered samples in the laboratory or performing in situ tests.

- 3.2** List in chronological order the steps involved in performing a site exploration and characterization program.

Solution

1. Project assessment
2. Literature search
3. Field reconnaissance
4. Subsurface exploration: drilling and sampling, groundwater exploration and monitoring, and in situ testing
5. Ex situ or laboratory testing
6. Synthesis and interpretation

Section 3.1 Project Assessment

- 3.3** What information should be gathered for the planning of a site exploration and characterization program?

Solution

1. The types, locations, and approximate dimensions of the proposed improvements.
2. The type of construction, structural loads, and allowable settlements.
3. The existing topography and any proposed grading.
4. The presence of previous development on the site, if any.

Section 3.2 Literature Search

- 3.4** What information can be obtained from geologic maps?

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