

CHAPTER 4

SAMPLING METHODS AND REQUIREMENTS

4.1 General

This chapter deals primarily with the general principles and the advantages and limitations of various methods and types of equipment used in obtaining and handling samples of subsurface materials; details of the sampling equipment and methods are described in Part II. Reference is made to Section 1.2 for general definitions and classifications. A detailed classification and a summary of the principal features and fields of application of the various types of samples are shown in Table 5.

The first problem in the sampling of subsurface materials is, of course, to obtain a sample; that is, to get the material into the sampler and to keep it there during withdrawal of the sampler. In undisturbed sampling the second, equally important, and more difficult problem is to obtain the sample with a minimum of disturbance of the material. This disturbance may occur not only during the actual sampling but also before and after this operation. The various causes of disturbance of the soil during boring and sampling operations and the subsequent handling of the sample are discussed in this chapter, and the outward manifestations of such disturbances are illustrated by photographs and diagrams obtained during the research. Photographs showing soil stratifications, distortions of the strata, planes of failure, etc., were obtained after the samples had been sliced, partially dried, and carefully trimmed; the procedure is described in detail in Sections 16.10 to 16.12. A further discussion of the basic types of disturbance, their influence on the results of laboratory tests, and the requirements for undisturbed samples is presented in Chapter 6.

4.2 Disturbance of the Soil below a Bore Hole

A review of the methods used for stabilizing or preventing caving of a bore hole was presented in Section 2.11, and it was pointed out that water in a bore hole above the ground-water level may cause sloughing or general failure of the soil or at least a change in the water content of the soil to be sampled. The use of drilling fluid instead of water will eliminate danger of sloughing and decrease the change in water content, but the fluid may also penetrate into very porous materials and thereby contaminate the soil to be sampled. Therefore, bore holes above the ground-water level should, as far as possible, be kept dry when undisturbed samples are to be obtained.

Subsurface Exploration And Sampling Of Soils For Civil Engineering Purposes

H Kauffman



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