WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MATERIALS CONTROL, SOILS AND TESTING DIVISION

MATERIALS PROCEDURE

PROCEDURE FOR EVALUATING AND DISPOSING OF BEDROCK CORE

1.0 PURPOSE

1.1 The purpose of this procedure is to establish a method for handling, evaluating, and disposing of rock core and associated split spoon soil samples.

2.0 SCOPE

2.1 This procedure will apply to all organizations taking bedrock core and split spoon soil samples, and to all projects where soil and bedrock core samples are obtained.

3.0 REFERENCES

3.1 AASHTO T 206

3.2 AASHTO T 225

4.0 CORE HANDLING AND CHARACTERISTICS

4.1 Rock core shall be handled with care so as not to cause breakage, disturbance, or loss of material when transferring the core from the barrel to the box. The core shall be placed in the box as described in AASHTO T 225 for purposes of determining the percent recovery, rock quality designation (RQD), estimated hardness, and compressive strength, and for photographs.

4.2 Soil obtained with the split spoon sampler in accordance with AASHTO T 206 that is to be tested shall be sealed in a metal or glass container and properly labelled with hole number, station and offset, depth of top and bottom of sample, date, and the project number. The soil samples shall be delivered to the location specified in the drilling documents.

4.3 If laboratory tests for the unconfined compressive strength of the bedrock core at specific elevations are required, each core sample selected should have a minimum length 2 to 2 1/2 times the diameter of the core. In no case will the length of the core be less than the diameter. Each sample of core is to be immediately sealed in a plastic bag and protected against shock and freezing, during storage at the drilling site and during transportation to the testing facility. The core will be delivered to the location specified on the drilling documents.

4.3.1 Each sample is to be properly labelled with hole number, date, station and offset, depth of top and bottom of sample, and the project number.

4.4 When the drilling documents require the core to be photographed, it shall be placed in a core box as directed in 4.1. The core is to be delivered to the agency requesting the photography or as specified in the boring documents.

4.5 When core is to be retained in boxes for photographing or inspection, it will be boxed as follows:

4.5.1 Core from only one boring will be stored in a single box. However, one boring may require more than one box.

4.5.2 All boxes will have the lid and bottom properly secured so that the material being stored is not lost in handling. All the lids will be secured with hinges and screws or all screws.

4.5.3 Each box will be identified with a weather proof label indicating hole number, station and offset, date, depth of top and bottom of run in box, and number of boxes for each boring.

5.0 STORAGE

5.1 Soil and bedrock core will not normally be stored by the Division.

5.2 If a District, Division, or other agency requests that core from a specific project is to be saved, a location for delivery must be specified. The Division will not deliver core outside of West Virginia. It will be the responsibility of the organization requesting retention of the core to store and to dispose of the core when storage is no longer necessary.

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