

1211

**UNIT WEIGHT DETERMINATION**

AASHTO Designation T 19

## A. Concrete

This is a test run on new sources or new production of concrete aggregates (+4.75mm [#4] sieve) to determine the average weight of 1 cubic meter of aggregate. This is needed to issue a mix design. This test is run in accordance with AASHTO procedures.

## B. Bituminous

This is a test run on Stone Matrix Asphalt Mixtures (SMA) which will use the Dry Rodding Procedure as detailed in AASHTO T 19. This test will determine the voids in coarse aggregate ( $VCA_{DRY}$ ). The testing is performed on the aggregate blend that is retained on the "Break Point Sieve".

For: Break Point Sieve:

19.0 mm mixes	4.75 mm, #4 sieve
12.5 mm mixes	4.75 mm, #4 sieve
9.5 mm mixes	2.36mm, #8 sieve

The minimum capacity of the measure shall be in accordance with Table I of AASHTO T19.

## C. Seal Coat Aggregates

This is a test to be run using the Shoveling Procedure as detailed in AASHTO T 19.

1212

**ORGANIC IMPURITIES IN SAND FOR CONCRETE  
(COLOR PLATE)**

AASHTO Designation T 21

This is a Central Lab test run on new sources of sand to determine the approximate amount of injurious organic compounds. The result of this test will determine if a Structural Strength test should be run on this sand source. This test is run in accordance with AASHTO procedures.

1213

**STRUCTURAL STRENGTH OF SAND**

AASHTO Designation T 71

This is a Central Lab test for determining the effect on compressive strength of mortar of organic impurities in sand when their presence is indicated by the Color Plate test (See Section 1212). Cubes are made using the sample sand and companion cubes are made using a standard sand. Compression test results are compared to determine acceptability of the sample sand. This test is run in accordance with AASHTO procedures.