# Colorado Procedure 57-95

Standard Method of Test for

# Determining the "Free Moisture" in Cold In-Place Recycled Pavement

## 1. SCOPE

1.1 This procedure is to be used to determine the "free moisture" in cold in-place bituminous recycled pavement.

#### 2. REFERENCED DOCUMENTS

2.1 Two alternate procedures are recommended as follows:

CP 43, Method A (Microwave Procedure)

CP 21 (Oven Dry Procedure)

**NOTE 1:** Use of a hot plate is not allowed, sample shall be dried to constant weight (mass) in an oven at  $230^{\circ}F \pm 9^{\circ} (110^{\circ}C \pm 5^{\circ})$  if CP 21 is used.

#### 3. SAMPLING

- 3.1 Obtain a sample of the existing pavement from the roadway prior to cold in-place recycling. One sample per day of each pavement type being recycled should be sampled and tested.
- **NOTE 2:** One sample per day needs to be taken to account for the variation in the in-place moisture of the existing pavement.
- **NOTE 3:** Core samples are not recommended because of the excessive moisture introduced by the coring process.
- 3.2 Obtain a sample of the in-place recycled pavement, which has been compacted and is ready for either placement of the sealing emulsion or hot mix asphalt pavement overlay.

#### 4. PROCEDURE

- 4.1 Determine the moisture content of the existing pavement sample by one of the procedures listed in Subsection 2.1.
- 4.2 Determine the moisture content of the cold in-place recycled sample by one of the procedures listed in Subsection 2.1.

#### 5. CALCULATIONS

5.1 Calculate the percent "free moisture" as follows:

# Percent "free moisture" = B - A

## Where:

A = Percent moisture in Existing Pavement, B = Percent moisture in Cold Recycled Material.

# 6. REPORTING

- 6.1 Report the "free moisture" to the nearest 0.1%.
- 6.2 Record the "free moisture" on the field density report for cold recycled pavement.

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