

### **2026 AB, YT MINI-CORRELATIONS**

#### **AGGREGATES and SOILS INCLUDING SUPERPAVE AGGREGATES**

Please read the following Mini-Correlation instructions carefully BEFORE you start testing!

- Testing of mini correlation samples shall be according to the below instructions.
- Submit results by **March 30, 2026** in the mini correlation report(s) provided in the labs portal. <https://portal.ccil.com/> After signing into the portal, all mini-correlation reporting forms appropriate to your lab certification will be accessible under the tab for **Reporting Forms**. You will be able to enter your test results into the forms and submit to CCIL through the portal.
- Please record the mini-correlation sample identification information found on the sample labels in the “Comments” section of the reporting forms and upload any photos of unclear labels in the portal mini report.

#### **SAMPLES FOR MINI-CORRELATION TESTING**

- Samples for the mini-correlation were shipped to the laboratory on March 9, 2026. If you experience delay in receiving your samples, please advise Anett Briggs [abriggs@ccil.com](mailto:abriggs@ccil.com) of your need for an extension. **Results beyond March 31<sup>st</sup> may affect your 2026 certificate being issued.**
- The mini-correlation samples are pre-prepared to meet the requirements of the appropriate test method and are to be tested as received unless instructed otherwise.
- Generally, only one sample will be shipped for each test requiring a mini-correlation. Tests for a mini-correlation are not generally carried out in pairs.
- **Unsatisfactory mini result will result in a 2<sup>nd</sup> mini correlation that must be conducted in the presence of a CCIL inspector, typically at the laboratory’s expense.**

## **AB, YT MINI-CORRELATION INSTRUCTIONS – AGGREGATES**

### **Sample Preparation**

Dry all mini-correlation aggregate samples to a constant mass at  $110 \pm 5^\circ\text{C}$ . (Drying at max  $40^\circ\text{C}$  that was needed for some of the samples tested for the 2026 certification period does not apply to any of the mini correlation samples.)

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### **ASTM C117: WASH PASSING THE 0.080 mm SIEVE.**

Test the entire mini correlation sample as specified in C117. Report the Percent Loss to two decimal (0.01%).

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### **ASTM C136: SIEVE ANALYSIS OF AGGREGATES.**

All laboratories with unacceptable correlation test results for sieve analysis will receive a combined coarse and fine aggregate sample even if the problem with your original test results was with the fine aggregate sieves only. This year, CCIL is NOT providing fine aggregate samples for sieve analysis.

Test the entire mini-correlation sample as specified in C136 to determine the aggregate gradation. Report the percent passing on each sieve listed in the portal report (20, 16, 12.5, 10, 5, 2.5, 1.25, 0.630, 0.315, 0.160 and 0.080 mm). All sieves are to be reported to 1 decimal (0.1%), except the 5 mm and 0.080 mm sieves are to be reported to two decimal places (0.01%).

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### **ASTM D5821: PERCENTAGE OF FRACTURED PARTICLES IN COARSE AGGREGATE**

The mini-correlation sample is comprised of a test sample of material retained on the 4.75mm sieve. Do not separate into individual size fractions. Determine the percentage of fractured particles with at least one fractured face by mass, according to the test method. Report the Percent Fractured particles to the nearest 0.1%.

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## **TYPE D TESTS:**

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### **ASTM D4791: PERCENT FLAT AND ELONGATED PARTICLES**

The mini-correlation sample is comprised of a single test sample each, representing all of the size fractions combined. Do not separate into sized fractions. Test the portion of the sample retained on the 5mm sieve only. Test as a single fraction and report a Percent Flat and Elongated particles on that basis. For Type C and Type D Superpave Properties ASTM D4791 use a 5:1 ratio.

Report the overall weighed average the result to the nearest 0.1%. The portal allows 2 decimals but only one is required.

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### **ASTM C127: RELATIVE DENSITY AND ABSORPTION OF COARSE AGGREGATE**

Carry out the test as outlined in the test procedure. The mini-correlation sample size allows for duplicate testing. Report the Average Relative Density (OD) to three decimal places (0.001). Calculate and report the Average Percent Absorption and report to 2 decimal places (0.01%).

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### **ASTM D7428: MICRO-DEVAL ABRASION OF FINE AGGREGATE**

Prepare the test specimen according to ASTM D7428 Section 8. Record the Test Sample Loss to the nearest 0.1%.

Run a control sample at the same time. Report your control sample tested (Sutherland Sand or MTO RM FA3), and Loss to the nearest 0.1% in the comments section of the portal report.

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## **SOILS TESTS**

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### **AASHTO T88: PARTICLE SIZE ANALYSIS OF SOILS**

Prepare the test specimens in accordance with T88. Use a freshly prepared dispersing agent with distilled water using 40 grams of sodium hexametaphosphate per litre of solution and ensure the pH value of the solution is adjusted to 8 or 9. The soil samples supplied should be dispersed in the stirring apparatus for 10 minutes.

Use the assumed value of 2.750 for the specific gravity of soil particles. Upon completion of the test, compute Particle Diameter D to four significant digits (i.e., 0.0001), and report the Percent Passing the 2.0 mm, 425µm, 75µm, 20µm, 5µm and 2µm sieves to the nearest 0.1 percent. The portal allows 2 decimals but only one is required.

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### **ASTM D4318: LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS**

Determine the Liquid Limit, Plastic Limit and Plasticity Index of mini-correlation soil sample provided according to ASTM D 4318. Prepare the test specimens as outlined in Section 11.2 – Dry Preparation, and determine the Liquid Limit according to the procedure described in Section 12.0, Method A – Multi-point Liquid Limit. Determine the Plastic Limit using a minimum of two trials and report the mean value. Report the Liquid Limit, Plastic Limit and Plasticity Index to the nearest one decimal, i.e., 0.1 %. The portal allows 2 decimals but only one is required.

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**ASTM D698: LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT**

Follow ASTM D698 Method C to perform the test on only the materials passing 19.0 mm sieve for compaction. Use the following parameters to compute correction for oversize particles:

Bulk specific gravity of the oversize fraction = 2.600

Water content of the oversize fraction = 0.90%

Calculate corrected optimum moisture content according to equation (4) of ASTM D 4718.

Calculate corrected maximum dry density using the following equation:

$$C_{pd} = (100 \rho_F GM) / (\rho_F PC + GM PF)$$

where:

$C_{pd}$  = corrected dry density of the total material (combined finer and oversize fractions),

$GM$  = bulk specific gravity,

$\rho_F$  = dry density of the finer fraction,

$PC$  = Percent of oversize coarse fraction by weight, and

$PF$  = Percent of oversize finer fraction by weight,

Example Calculation:

Given  $GM = 2.60$ ,  $\rho_F = 2.250$ ,  $PC = 12.2\%$ ,  $PF = 87.8\%$

$$C_{pd} = (100 \times 2.250 \times 2.60) / (2.250 \times 12.2 + 2.60 \times 87.8) = 2.288$$

Report the maximum wet density in t/m<sup>3</sup>, corrected maximum dry density in t/m<sup>3</sup>, and corrected optimum moisture content in percentage. DO NOT REUSE THIS MATERIAL. (Note: t/m<sup>3</sup> = g/cm<sup>3</sup>).

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