

CCIL Aggregate and Soil Proficiency Sample Program  
Alberta and Yukon

### **2022 Alberta and Yukon 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 18<sup>th</sup> 2022** in the mini correlation report(s) provided in the lab's 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 March 7<sup>th</sup>. 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 2022 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 2nd mini that must be conducted in the presence of a CCIL inspector.

**Alberta and Yukon MINI-CORRELATION INSTRUCTIONS – AGGREGATES**

**Sample Preparation**

Dry all mini-correlation aggregate samples to a constant mass at  $110 \pm 5^\circ\text{C}$ .

**ASTM C136: SIEVE ANALYSIS OF AGGREGATES**

If the problem with your original test results was with the fine aggregate sieves only, your lab will receive a mini-correlation sample of fine aggregate only. Otherwise, your lab will receive a combined coarse aggregate and fine aggregate sample.

Combined

If you receive a **combined coarse and fine aggregate sample**, 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 5.0 mm and 0.080 mm sieves are to be reported to two decimal places (0.01%). The portal allows 2 decimals for all sieves but only the above is required.

Fine Only

If you receive **only fine aggregate** for the mini-correlation sample, test the entire mini-correlation sample following C136 on the 2.5, 1.25, 0.630, 0.315, 0.160 and 0.080 mm sieves. However, when reporting the % passing, use the value from the following table to reduce the % passing on each sieve by multiplying by the factor provided. All sieves are to be reported to 1 decimal (0.1%), except the 0.080 mm sieve is to be reported to two decimal places (0.01%). The portal allows 2 decimals for all sieves but only the above is required.

Mini sample year on label	Factor for original % passing the 5mm sieve, multiply by
2021	0.382
2022	0.481

Example:

Sieve (mm)	Fine Aggregate % Passing of sample	Multiplication factor (%Passing 4.75mm)	Value to be reported in the portal report (% Passing of original)
2.50	77.7	0.4908	38.1
1.25	58.2	0.4908	28.6

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

The mini-correlation sample is comprised of a single test sample representing all of the size fractions combined. Test the portion of the sample retained on the 5.00 mm sieve only. Do not separate into individual size fractions. Determine the percentage of fractured particles with at least one fractured face by mass, for the whole sample. Report the Percent Fractured particles to the nearest 0.1%. The portal allows 2 decimals but only the above 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 10.2 – Dry Preparation, and determine the Liquid Limit according to the procedure described in Section 11.0, 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 the above is required.

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