

# MINIMUM REQUIRED SAMPLES AND TESTS: INDEPENDENT ASSURANCE (IA)

## JANUARY 2021

| TEST NO* | TEST DESCRIPTION                   | SAMPLE FREQUENCY                          | LOCATION OR TIME OF SAMPLING | REMARKS                            |
|----------|------------------------------------|---|------------------------------|------------------------------------|
| 102      | Density                            | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 103      | Density                            | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 104      | Specific Gravity                   | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 108      | Proctor                            | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 111      | Absorption<br>Specific Gravity     | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 206      | Sieve Analysis                     | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 210      | Liquid Limit                       | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 211/212  | Plastic Limit/ Plasticity<br>Index | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 227      | Sand Equivalent                    | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 228      | Cleanness Value                    | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |

\* -- Assumes a Nevada test method (Nev. T) unless otherwise noted.

\*\* -- Discuss any changes from the frequencies shown with the Quality Assurance Engineer.

\*\*\* - Visual Audits (040-079) may be done in lieu of 2-Way Split or Side-by-Side at a frequency not to exceed 50% of min. required IA frequencies. (Example: Min. of 5 audits required x 50% = 2.5 = 2 Visual Audits.

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| TEST NO* | TEST DESCRIPTION                                   | SAMPLE FREQUENCY                          | LOCATION OR TIME OF SAMPLING | REMARKS                            |
|----------|--|---|------------------------------|------------------------------------|
| 230      | Fractured Face                                     | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 325      | Theoretical Maximum Specific Gravity (RICE)        | 1 per Construction Crew per Calander Year | Split Sample                 | 2-Way Split Sample Required        |
| 335      | Density  | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 416      | Compressive Strength<br>Air Content<br>Unit Weight | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 417      | Slump Flow<br>VSI (Visual Stability Index)         | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 418      | J-Ring / Slump Cone                                | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 431      | Air Content by Volumetric                          | 1 per Construction Crew per Calander Year | Side - By - Side             | Side - By- Side                    |
| 432      | Air Content by Pressure                            | 1 per Construction Crew per Calander Year | Side - By - Side             | Side - By- Side                    |
| 435      | Unit Weight  | 1 per Construction Crew per Calander Year | Side - By - Side             | Side - By- Side                    |
| 438      | Slump  | 1 per Construction Crew per Calander Year | Side - By - Side             | Side - By- Side                    |

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| 750      | Density          | 1 per Construction Crew per Calander Year | Visual Observation           | Visual Audit of Testing Procedures |
| 761      | Bitumen Ratio    | 1 per Construction Crew per Year          | Split Sample                 | 2-Way Split Sample Required        |
| 762      | Field Viscosity  | 1 per Construction Crew per Year          | Visual Observation           | Visual Audit of Testing Procedures |

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