



Technician Demonstrating Test Method for 2023 AASHTO Re:Source Assessment #R39746

Asphalt Binder

| Supporting Documents/Calibration Records | AASHTO or Other | ASTM | Test Name | Name of Technician Demonstrating Test Method | Evaluations and Training Records |
|--|-----------------|-------|--|--|----------------------------------|
| | R28 ✓ | D6521 | Pressurized Aging Vessel (PAV) | Lane Hatley | View |
| | T44 ✓ | D2042 | Solubility of Asphalt Materials in Trichloroethylene | Lane Hatley | View |
| View | T48 ✓ | D92 | Flash Point by Cleveland Open Cup | Danny Moore | View |
| | T49 ✓ | D5 | Penetration of Bituminous Materials | Danny Moore | View |
| | T50 ✓ | D139 | Float Test for Bituminous Materials | Danny Moore | View |
| | T51 ✓ | D113 | Ductility of Bituminous Materials | Katelyn Caskey | View |

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|----------------------|------|---|-------|---|----------------|----------------------|
| | T53 | ✓ | D36 | Softening Point of Bitumen (Ring-and-Ball) | Danny Moore | View |
| | T78 | ✓ | D402 | Distillation of Cut-Back Asphaltic Products | Lane Hatley | View |
| | T79 | ✓ | D3143 | Flash Point With Tag Open-Cup Apparatus | Katelyn Caskey | View |
| | T201 | ✓ | D2170 | Kinematic Viscosity of Asphalts | Lane Hatley | View |
| | T202 | ✓ | D2171 | Viscosity by Vacuum Capillary | Lane Hatley | View |
| | T228 | ✓ | D70 | Specific Gravity of Asphalt Cement | Lane Hatley | View |
| | T240 | ✓ | D2872 | Rolling Thin-Film Oven Test | Lane Hatley | View |
| | T295 | ✓ | D3142 | Specific Gravity of Liquid Asphalts by Hydrometer | Aimee Willard | View |
| | T301 | | D6084 | ✓ Elastic Recovery Test | Katelyn Caskey | View |
| | T313 | ✓ | D6648 | Bending Beam Rheometer (BBR) | Danny Moore | View |
| View | T315 | ✓ | D7175 | Dynamic Shear Rheometer (DSR) | Aimee Willard | View |

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|---|------------------------|-------------|---|---|---------------------------------|
| View | T316 ✓ | D4402 | Viscosity of Asphalt Binder Using Rotational Viscometer | Aimee Willard | View |
| | T350 ✓ | D7405 | Multiple Stress Creep and Recovery (MSCR) | Aimee Willard | View |
| Emulsified Asphalt | | | | | |
| Supporting Documents/Calibration Records | AASHTO or Other | ASTM | Test Name | Name of Technician Demonstrating Test Method | Evaluations and Training |
| | T59 ✓ | D6930 | Settlement and Storage Stability | Katelyn Caskey | View |
| | T59 ✓ | D6933 | Sieve Test | Aimee Willard | View |
| | T59 ✓ | D6934 | Residue by Evaporation | Aimee Willard | View |
| | T59 ✓ | D7402 | Particle Charge | Danny Moore | View |
| View | T59 ✓ | T72 | Saybolt Viscosity at 25°C (77°F) | Katelyn Caskey | View |
| View | T59 ✓ | T72 | Saybolt Viscosity at 50°C (122°F) | Katelyn Caskey | View |
| Asphalt Mixture | | | | | |
| Supporting Documents/Calibration Records | AASHTO or Other | ASTM | Test Name | Name of Technician Demonstrating Test Method | Evaluations and Training |

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|--|--------|-------|---|---------------|----------------------|
| | R47 ✓ | | Reducing Samples of Hot-Mix Asphalt | Kyle Massey | View |
| | R79 ✓ | D7227 | Rapid Vacuum Drying | Jerry Smith | View |
| | T30 ✓ | D5444 | Mechanical Analysis of HMA | Kenny Herbert | View |
| | T164 ✓ | D2172 | Quantitative Extraction of Asphalt Binder from HMA | Kenny Herbert | View |
| | T166 ✓ | D2726 | Bulk Specific Gravity of Compacted Hot Mix Asphalt | Kyle Massey | View |
| | T209 ✓ | D2041 | Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures | Kyle Massey | View |
| | T269 ✓ | D3203 | Percent Air Voids in Bituminous Paving Mixtures | Kyle Massey | View |
| | T283 ✓ | D4867 | Moisture-Induced Damage of HMA (Tensile Strength Ratio) | Kyle Massey | View |
| | T308 ✓ | D6307 | Asphalt Content by Ignition Method | Kenny Herbert | View |
| | T312 ✓ | D6925 | Hot Mix Asphalt Superpave Gyrotory Compactor | Kyle Massey | View |
| | T324 ✓ | | Hamburg Wheel-Track Test | Kenny Herbert | View |

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|----------------------|--------|---------|---|-------------|----------------------|
| | T329 ✓ | | Moisture Content of HMA by Oven | Jerry Smith | View |
| View | T331 ✓ | D6752 | Bulk Specific Gravity Using Vacuum Sealing Method | Jerry Smith | View |
| View | | D3549 ✓ | Thickness or Height of Compacted Specimens | Kyle Massey | View |

Soil

| Supporting Documents/Calibration Records | AASHTO or Other | ASTM | Test Name | Name of Technician Demonstrating Test Method | Evaluations and Training |
|--|-----------------|---------|--|--|--------------------------|
| | R58 ✓ | D421 ✓ | Dry Preparation of Samples | Caley Knowles | View |
| | T88 ✓ | D422 ✓ | Particle Size Analysis of Soils by Hydrometer | Julia Boydston | View |
| | T89 ✓ | D4318 | Liquid Limit of Soils (Atterberg Limits) | Caley Knowles | View |
| | T90 ✓ | D4318 ✓ | Plastic Limit of Soils (Atterberg Limits) | Caley Knowles | View |
| | T99 ✓ | D698 ✓ | Moisture-Density (Proctor) of Soils, Standard Effort | Julia Boydston | View |
| | T100 ✓ | D854 | Specific Gravity of Soils | Claudius Oladele | View |

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|---|------------------------|-------------|---|---|---------------------------------|
| | T180 ✓ | D1557 ✓ | Moisture-Density (Proctor) of Soils, Modified Effort | Julia Boydston | View |
| | T193 ✓ | D1883 ✓ | California Bearing Ratio | Silas George | View |
| | T208 ✓ | D2166 ✓ | Unconfined Compressive Strength of Soil | Andrew Hawcroft | View |
| | T216 ✓ | D2435 ✓ | One-Dimensional Consolidation of Soils | Andrew Hawcroft | View |
| | T236 ✓ | D3080 | Direct Shear of Soils | Andrew Hawcroft | View |
| | T265 ✓ | D2216 ✓ | Moisture Content of Soils | Julia Boydston | View |
| | | D2487 ✓ | Classification of Soils (Unified System) | Andrew Hawcroft | View |
| | | D2488 ✓ | Description and Identification of Soils (Visual-Manual) | Andrew Hawcroft | View |
| | | D4943 ✓ | Shrinkage Factors of Soils by Wax Method | Claudius Oladele | View |
| Rock | | | | | |
| Supporting Documents/Calibration Records | AASHTO or Other | ASTM | Test Name | Name of Technician Demonstrating Test Method | Evaluations and Training |

| | | D4644 ✓ | Slake Durability of Shales and Weak Rocks | Claudius Oladele | View |
|--|-----------------|---------|---|--|--------------------------|
| | | D5731 ✓ | Point Load Strength Index of Rock | Andrew Hawcroft | View |
| Aggregate | | | | | |
| Supporting Documents/Calibration Records | AASHTO or Other | ASTM | Test Name | Name of Technician Demonstrating Test Method | Evaluations and Training |
| | R76 ✓ | C702 | Reducing Samples of Aggregate to Test Size | Katelyn Ucero | View |
| | R90 ✓ | D75 ✓ | Sampling Aggregate | Katelyn Ucero | View |
| | T11 ✓ | C117 | Material Finer Than 75- μ m (No. 200) Sieve | John Moore | View |
| | T19 ✓ | C29 | Bulk Density and Voids in Aggregate | Shawn Alvillar | View |
| | T21 ✓ | C40 | Organic Impurities in Sands | Shawn Alvillar | View |
| | T27 ✓ | C136 | Sieve Analysis of Aggregates | John Moore | View |
| | T84 ✓ | C128 | Fine Aggregate Specific Gravity and Absorption | Katelyn Ucero | View |

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|--|--------|---------|--|-----------------|----------------------|
| | T85 ✓ | C127 | Coarse Aggregate Specific Gravity and Absorption | John Moore | View |
| | T96 ✓ | C131 | Abrasion of Coarse Aggregate | John Moore | View |
| | T112 ✓ | C142 | Clay Lumps and Friable Particle Percentage | Katelyn Ucero | View |
| | T176 ✓ | D2419 ✓ | Sand Equivalent Test | Kenny Herbert | View |
| | T210 ✓ | D3744 | Aggregate Durability Index | Shawn Alvillar | View |
| | T255 ✓ | C566 | Moisture Content of Aggregate by Oven Drying | Daniel Gittings | View |
| | T304 ✓ | C1252 | Uncompacted Void Content of Fine Aggregate | Jerry Smith | View |
| | T327 ✓ | D6928 | Resistance to Abrasion by Micro-Deval (Coarse Agg) | John Moore | View |
| | T335 | D5821 ✓ | Fractured Particles in Coarse Aggregate | Katelyn Ucero | View |
| | | D4791 ✓ | Flat, Elongated, or Flat and Elongated Particles | Katelyn Ucero | View |

Iron and Steel

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|--|-----------------|------------|---|--|--------------------------|
| | M111-T65 ✓ | A123-A90 | Zinc Coatings on Iron and Steel: Thickness of Zinc (Stripping) | Chris Long | View |
| | M111 ✓ | A123-E376 | Zinc Coatings on Iron and Steel: Thickness of Zinc (Magnetic) | Chris Long | View |
| | M336 ✓ | A1064 | Welded Plain Steel Wire: Weld Shear | Daniel Gittings | View |
| | M336-T244 ✓ | A1064-A370 | Welded Plain Steel Wire: Tension (Ultimate Tensile Strength) | Daniel Gittings | View |
| | M336 ✓ | A1064 | Welded Deformed Steel Wire: Weld Shear | Daniel Gittings | View |
| | M336-T244 ✓ | A1064-A370 | Welded Deformed Steel Wire: Tension (Ultimate Tensile Strength) | Daniel Gittings | View |
| | M336-T244 ✓ | A1064-A370 | Deformed Steel Wire: Tension (Ultimate Tensile Strength) | Daniel Gittings | View |
| | M336-T244 ✓ | A1064-A370 | Plain Steel Wire: Tension (Ultimate Tensile Strength) | Daniel Gittings | View |
| | M31-T244 ✓ | A615-A370 | Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength) | Daniel Gittings | View |

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|--|------------|-----------|---|-----------------|----------------------|
| | M31-T244 ✓ | A615-A370 | Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile) | Daniel Gittings | View |
| | M31-T244 ✓ | A615-A370 | Carbon-Steel Bars, Deformed and Plain: Tension (Elongation) | Daniel Gittings | View |