



CERTIFICATE OF ACCREDITATION



Ninyo & Moore Geotechnical and Environmental Sciences Consultants

in

Phoenix, Arizona, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories ([aashtoresource.org](https://www.aashtoresource.org)).

A handwritten signature in black ink, appearing to read 'Jim Tymon', written over a horizontal line.

Jim Tymon,
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Moe Jamshidi', written over a horizontal line.

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 06/24/2024 at 5:53 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](https://www.aashtoresource.org/aap/accreditation-directory)



SCOPE OF AASHTO ACCREDITATION FOR:

Ninyo & Moore Geotechnical and Environmental Sciences Consultants
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Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	09/10/2018
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	09/10/2018
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/01/2019
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	09/10/2018
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	09/10/2018
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	09/10/2018
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/10/2018
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/10/2018
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/01/2019
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	09/10/2018
E329 (Sprayed Fire-Resistive Material)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/17/2019



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Controlled Low Strength Material (CLSM)

Standard:

Accredited Since:

D4832 Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders

06/08/2021

D5971 Sampling Freshly Mixed Controlled Low-Strength Material (CLSM)

06/08/2021



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Asphalt Mixture

Standard:

Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	09/10/2018
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/10/2018
T30	Mechanical Analysis of Extracted Aggregate	09/10/2018
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	09/10/2018
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	09/10/2018
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	09/10/2018
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	09/10/2018
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	09/10/2018
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	09/10/2018
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	09/10/2018
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	07/19/2022
T355	Density of Bituminous Concrete In Place by Nuclear Methods	07/17/2019
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	09/10/2018
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	09/10/2018
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	07/17/2019
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	09/10/2018
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	07/19/2022
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	09/10/2018
D5444	Mechanical Analysis of Extracted Aggregate	09/10/2018
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	09/10/2018
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	09/10/2018
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	09/10/2018
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	09/10/2018



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Soil

Standard:

Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/10/2018
T88	Particle Size Analysis of Soils by Hydrometer	09/10/2018
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	09/10/2018
T90	Plastic Limit of Soils (Atterberg Limits)	09/10/2018
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/10/2018
T100	Specific Gravity of Soils	09/10/2018
T134	Moisture-Density Relations of Soil-Cement Mixtures	09/10/2018
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/10/2018
T191	Density of Soil In-Place by the Sand Cone Method	07/17/2019
T208	Unconfined Compressive Strength of Cohesive Soil	09/10/2018
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	09/10/2018
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	07/17/2019
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	09/10/2018
T265	Laboratory Determination of Moisture Content of Soils	09/10/2018
T267	Determination of Organic Content in Soils by Loss on Ignition	07/19/2022
T288	Minimum Soil Resistivity	07/17/2019
T289	pH of Soils for Corrosion Testing	07/17/2019
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	09/10/2018
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/10/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/10/2018
D422	Particle Size Analysis of Soils by Hydrometer	09/10/2018
D558	Moisture-Density Relations of Soil-Cement Mixtures	09/10/2018
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/10/2018



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Soil (Continued)

Standard:	Accredited Since:
D854 Specific Gravity of Soils	09/10/2018
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	09/10/2018
D1556 Density of Soil In-Place by the Sand Cone Method	09/10/2018
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/10/2018
D2166 Unconfined Compressive Strength of Cohesive Soil	09/10/2018
D2216 Laboratory Determination of Moisture Content of Soils	09/10/2018
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	09/10/2018
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	09/10/2018
D2488 Description and Identification of Soils (Visual-Manual Procedure)	09/10/2018
D2974 Determination of Organic Content in Soils by Loss on Ignition	07/19/2022
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	09/10/2018
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	09/10/2018
D4318 Plastic Limit of Soils (Atterberg Limits)	09/10/2018
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	09/10/2018
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	09/10/2018
D4944 Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	07/17/2019
D4972 pH Testing of Soils	09/10/2018
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	09/10/2018
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/10/2018



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Aggregate

Standard:

Accredited Since:

R76	Reducing Samples of Aggregate to Testing Size	09/10/2018
R90	Sampling Aggregate	07/17/2019
T11	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	09/10/2018
T19	Bulk Density ("Unit Weight") and Voids in Aggregate	09/10/2018
T21	Organic Impurities in Fine Aggregates for Concrete	09/10/2018
T27	Sieve Analysis of Fine and Coarse Aggregates	09/10/2018
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/10/2018
T85	Specific Gravity and Absorption of Coarse Aggregate	09/10/2018
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/10/2018
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	09/10/2018
T112	Clay Lumps and Friable Particles in Aggregate	09/10/2018
T113	Lightweight Pieces in Aggregate	09/10/2018
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	09/10/2018
T255	Total Moisture Content of Aggregate by Drying	09/10/2018
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/10/2018
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	07/19/2022
C29	Bulk Density ("Unit Weight") and Voids in Aggregate	09/10/2018
C40	Organic Impurities in Fine Aggregates for Concrete	09/10/2018
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	09/10/2018
C117	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	09/10/2018
C123	Lightweight Pieces in Aggregate	09/10/2018
C127	Specific Gravity and Absorption of Coarse Aggregate	09/10/2018
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/10/2018



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Aggregate (Continued)

Standard:	Accredited Since:
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/10/2018
C136 Sieve Analysis of Fine and Coarse Aggregates	09/10/2018
C142 Clay Lumps and Friable Particles in Aggregate	09/10/2018
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/10/2018
C566 Total Moisture Content of Aggregate by Drying	09/10/2018
C702 Reducing Samples of Aggregate to Testing Size	09/10/2018
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/10/2018
D75 Sampling Aggregate	07/19/2022
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	09/10/2018
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	07/17/2019



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Sprayed Fire-Resistive Material

Standard:

Accredited Since:

E605 Thickness and Density of Sprayed Fire-Resistive Material(SFRM) Applied to Structural Members

09/10/2018

E736 Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members

09/10/2018



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Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/01/2019
R39	Making and Curing Concrete Test Specimens in the Laboratory	06/08/2021
R60	Sampling Freshly Mixed Concrete	02/01/2019
R100 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	05/07/2021
R100 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	05/07/2021
T22	Compressive Strength of Cylindrical Concrete Specimens	02/01/2019
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	06/08/2021
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	06/08/2021
T119	Slump of Hydraulic Cement Concrete	02/01/2019
T121	Density (Unit Weight), Yield, and Air Content of Concrete	02/01/2019
T148	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	06/08/2021
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	02/01/2019
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/01/2019
T231 (6000 psi and below)	Capping Cylindrical Concrete Specimens	05/07/2021
T309	Temperature of Freshly Mixed Portland Cement Concrete	02/01/2019
C31 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	05/07/2021
C31 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	05/07/2021
C39	Compressive Strength of Cylindrical Concrete Specimens	02/01/2019
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	06/08/2021
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	06/08/2021
C138	Density (Unit Weight), Yield, and Air Content of Concrete	02/01/2019
C143	Slump of Hydraulic Cement Concrete	02/01/2019
C172	Sampling Freshly Mixed Concrete	02/01/2019



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Concrete (Continued)

Standard:		Accredited Since:
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	02/01/2019
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	06/08/2021
C192	Making and Curing Concrete Test Specimens in the Laboratory	06/08/2021
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	02/01/2019
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/01/2019
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	05/07/2021
C805	Rebound Number of Hardened Concrete	06/08/2021
C1064	Temperature of Freshly Mixed Portland Cement Concrete	02/01/2019
C1140	Preparing and Testing Specimens from Shotcrete Test Panels	06/08/2021
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	02/01/2019



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Masonry

Standard:

Accredited Since:

C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes

06/08/2021

C1019 Sampling and Testing Grout

06/08/2021