



# CERTIFICATE OF ACCREDITATION



## Geotechnics, Inc.

in

## East Pittsburgh, Pennsylvania, 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](http://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

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**SCOPE OF AASHTO ACCREDITATION FOR:**  
Geotechnics, Inc.  
in East Pittsburgh, Pennsylvania, USA

## Quality Management System

**Standard:**

**Accredited Since:**

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	08/01/1996
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	10/05/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	10/05/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	10/05/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/17/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/17/2011



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Inc.  
in East Pittsburgh, Pennsylvania, USA

## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/09/2018
T88	Particle Size Analysis of Soils by Hydrometer	08/01/1996
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	08/01/1996
T90	Plastic Limit of Soils (Atterberg Limits)	08/01/1996
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	08/01/1996
T100	Specific Gravity of Soils	08/01/1996
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	08/01/1996
T193	The California Bearing Ratio	08/01/1996
T208	Unconfined Compressive Strength of Cohesive Soil	08/01/1996
T215	Permeability of Granular Soils (Constant Head)	08/01/1996
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	08/01/1996
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	08/01/1996
T265	Laboratory Determination of Moisture Content of Soils	08/01/1996
T267	Determination of Organic Content in Soils by Loss on Ignition	01/07/2020
T288	Minimum Soil Resistivity	02/09/2018
T289	pH of Soils for Corrosion Testing	02/09/2018
T290	Determining Water-Soluble Sulfate Ion Content in Soil	01/07/2020
T291	Determining Water-Soluble Chloride Ion Content in Soil	01/07/2020
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	08/01/1996
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	08/01/1996
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/09/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/09/2018
D422	Particle Size Analysis of Soils by Hydrometer	08/01/1996



**SCOPE OF AASHTO ACCREDITATION FOR:**  
Geotechnics, Inc.  
in East Pittsburgh, Pennsylvania, USA

**Soil (Continued)**

<b>Standard:</b>	<b>Accredited Since:</b>
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	08/01/1996
D854 Specific Gravity of Soils	08/01/1996
D1140 Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	01/07/2020
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	08/01/1996
D1883 The California Bearing Ratio	08/01/1996
D2166 Unconfined Compressive Strength of Cohesive Soil	08/01/1996
D2216 Laboratory Determination of Moisture Content of Soils	08/01/1996
D2434 Permeability of Granular Soils (Constant Head)	08/01/1996
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	08/01/1996
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/07/2020
D2488 Description and Identification of Soils (Visual-Manual Procedure)	01/07/2020
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	08/01/1996
D2937 Density of Soil in Place by the Drive-Cylinder Method	01/07/2020
D2974 Determination of Organic Content in Soils by Loss on Ignition	01/07/2020
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	08/01/1996
D4254 Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	01/07/2020
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	08/01/1996
D4318 Plastic Limit of Soils (Atterberg Limits)	08/01/1996
D4718 Oversize Particle Correction	09/18/2015
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	08/01/1996
D4972 pH Testing of Soils	02/09/2018
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	08/01/1996
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	02/09/2018



**SCOPE OF AASHTO ACCREDITATION FOR:**  
Geotechnics, Inc.  
in East Pittsburgh, Pennsylvania, USA

**Soil (Continued)**

**Standard:**

**Accredited Since:**

D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/09/2018
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	02/09/2018
G51 Measuring pH for Corrosion Testing	01/07/2020
G187 Soil Resistivity Using the Two-Electrode Soil Box	02/09/2018



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# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Inc.

in East Pittsburgh, Pennsylvania, USA

## Rock

### Standard:

### Accredited Since:

D3967 Splitting Tensile Strength of Intact Rock Core Specimens	01/07/2020
D4543 Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	01/07/2020
D5607 Direct Shear Strength Test of Rock Specimens Under Constant Normal Force	01/07/2020
D5731 Point Load Strength Index of Rock	04/08/2013
D7012 Compressive Strength of Rock Core Specimens (Method C)	01/07/2020



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Inc.

in East Pittsburgh, Pennsylvania, USA

## Aggregate

### Standard:

### Accredited Since:

C29	Bulk Density ("Unit Weight") and Voids in Aggregate	01/07/2020
C40	Organic Impurities in Fine Aggregates for Concrete	09/01/1998
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	01/07/2020
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	09/01/1998
C127	Specific Gravity and Absorption of Coarse Aggregate	09/01/1998
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/01/1998
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/07/2020
C136	Sieve Analysis of Fine and Coarse Aggregates	09/01/1998
C142	Clay Lumps and Friable Particles in Aggregate	01/07/2020
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	01/07/2020
C566	Total Moisture Content of Aggregate by Drying	09/01/1998
C702	Reducing Samples of Aggregate to Testing Size	09/01/1998
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	01/07/2020
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/07/2020



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Inc.  
in East Pittsburgh, Pennsylvania, USA

## Concrete

<b>Standard:</b>		<b>Accredited Since:</b>
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	01/25/2007
C39	Compressive Strength of Cylindrical Concrete Specimens	01/25/2007
C138	Density (Unit Weight), Yield, and Air Content of Concrete	01/25/2007
C143	Slump of Hydraulic Cement Concrete	01/25/2007
C172	Sampling Freshly Mixed Concrete	01/25/2007
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	01/25/2007
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	02/27/2014
C1064	Temperature of Freshly Mixed Portland Cement Concrete	01/25/2007
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/17/2011





# CERTIFICATE OF ACCREDITATION



**Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc.**

dba

**Geotechnics, Inc.**

in

**Raleigh, North Carolina, 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.

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Jim Tymon,  
*AASHTO Executive Director*

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Moe Jamshidi,  
*AASHTO COMP Chair*

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# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc. dba Geotechnics, Inc.  
in Raleigh, North Carolina, USA

## Quality Management System

**Standard:**

**Accredited Since:**

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	01/10/2003
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	02/13/2017



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc. dba Geotechnics, Inc.  
in Raleigh, North Carolina, USA

## Asphalt Mixture

### Standard:

### Accredited Since:

T166 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	12/04/2018
D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	12/04/2018



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc. dba Geotechnics, Inc.  
in Raleigh, North Carolina, USA

## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/04/2018
T88	Particle Size Analysis of Soils by Hydrometer	01/10/2003
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	01/10/2003
T90	Plastic Limit of Soils (Atterberg Limits)	01/10/2003
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/10/2003
T100	Specific Gravity of Soils	01/10/2003
T134	Moisture-Density Relations of Soil-Cement Mixtures	01/10/2003
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/10/2003
T193	The California Bearing Ratio	07/01/2011
T208	Unconfined Compressive Strength of Cohesive Soil	01/10/2003
T215	Permeability of Granular Soils (Constant Head)	12/04/2018
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/10/2003
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	01/10/2003
T265	Laboratory Determination of Moisture Content of Soils	01/10/2003
T267	Determination of Organic Content in Soils by Loss on Ignition	12/04/2018
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	01/10/2003
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	01/10/2003
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/01/2011
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/04/2018
D422	Particle Size Analysis of Soils by Hydrometer	01/10/2003
D558	Moisture-Density Relations of Soil-Cement Mixtures	01/10/2003
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/10/2003
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	02/13/2017



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc. dba Geotechnics, Inc.  
in Raleigh, North Carolina, USA

## Soil (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/10/2003
D1883 The California Bearing Ratio	07/01/2011
D2166 Unconfined Compressive Strength of Cohesive Soil	01/10/2003
D2216 Laboratory Determination of Moisture Content of Soils	01/10/2003
D2434 Permeability of Granular Soils (Constant Head)	12/04/2018
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	01/10/2003
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/10/2003
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	01/10/2003
D2974 Determination of Organic Content in Soils by Loss on Ignition	12/04/2018
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	01/10/2003
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/10/2003
D4318 Plastic Limit of Soils (Atterberg Limits)	01/10/2003
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	02/13/2017
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	01/10/2003
D4829 Expansion Index of Soils	12/04/2018
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	01/10/2003
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	02/13/2017
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/01/2011
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	12/04/2018



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc. dba Geotechnics, Inc.  
in Raleigh, North Carolina, USA

## Rock

### Standard:

### Accredited Since:

D4543 Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances

12/04/2018

D7012 Compressive Strength of Rock Core Specimens (Method C)

12/04/2018



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Geotechnics, Geotechnical, Geoenvironmental and Geosynthetics Laboratories, Inc. dba Geotechnics, Inc.  
in Raleigh, North Carolina, USA

## Aggregate

### Standard:

### Accredited Since:

T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	12/04/2018
T27	Sieve Analysis of Fine and Coarse Aggregates	01/10/2003
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	12/04/2018
C136	Sieve Analysis of Fine and Coarse Aggregates	01/10/2003



# CERTIFICATE OF ACCREDITATION



## Geotechnics Inc.


in

## Hendersonville, Tennessee, 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.

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\_\_\_\_\_  
Jim Tymon,  
AASHTO Executive Director

  
\_\_\_\_\_  
Moe Jamshidi,  
AASHTO COMP Chair

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**SCOPE OF AASHTO ACCREDITATION FOR:**  
Geotechnics Inc.  
in Hendersonville, Tennessee, USA

## Quality Management System

**Standard:**

**Accredited Since:**

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	07/31/2017
	D3740 (Soil) Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	10/10/2017



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics Inc.

in Hendersonville, Tennessee, USA

## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/25/2018
T88	Particle Size Analysis of Soils by Hydrometer	07/31/2017
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	07/31/2017
T90	Plastic Limit of Soils (Atterberg Limits)	07/31/2017
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/31/2017
T100	Specific Gravity of Soils	07/31/2017
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/31/2017
T193	The California Bearing Ratio	07/31/2017
T208	Unconfined Compressive Strength of Cohesive Soil	07/31/2017
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/31/2017
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	07/31/2017
T265	Laboratory Determination of Moisture Content of Soils	07/31/2017
T296	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/31/2017
T297	Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/31/2017
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	05/25/2018
D422	Particle Size Analysis of Soils by Hydrometer	07/31/2017
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	07/31/2017
D854	Specific Gravity of Soils	07/31/2017
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	07/31/2017
D1883	The California Bearing Ratio	07/31/2017
D2166	Unconfined Compressive Strength of Cohesive Soil	07/31/2017
D2216	Laboratory Determination of Moisture Content of Soils	07/31/2017
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	07/31/2017



# SCOPE OF AASHTO ACCREDITATION FOR:

Geotechnics Inc.

in Hendersonville, Tennessee, USA

## Soil (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	05/25/2018
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/31/2017
D3080 Direct Shear Test of Soils Under Consolidated Drained Conditions	07/31/2017
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	07/31/2017
D4318 Plastic Limit of Soils (Atterberg Limits)	07/31/2017
D4718 Oversize Particle Correction	07/31/2017
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	07/31/2017
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	07/31/2017
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	07/31/2017
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	07/31/2017
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	05/25/2018



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in Hendersonville, Tennessee, USA

## Rock

### Standard:

### Accredited Since:

D4543 Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances

05/25/2018

D7012 Compressive Strength of Rock Core Specimens (Method C)

07/31/2017



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## Aggregate

**Standard:**

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T11	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	07/31/2017
T27	Sieve Analysis of Fine and Coarse Aggregates	07/31/2017
T85	Specific Gravity and Absorption of Coarse Aggregate	07/31/2017
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	07/31/2017
C127	Specific Gravity and Absorption of Coarse Aggregate	07/31/2017
C136	Sieve Analysis of Fine and Coarse Aggregates	07/31/2017