



# CERTIFICATE OF ACCREDITATION



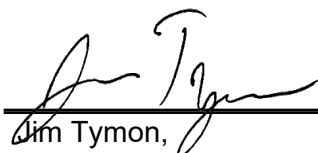
## Patriot Engineering and Environmental, Inc.

in

**Louisville, Kentucky, 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://aashtoresource.org)).

  
Jim Tymon,  
AASHTO Executive Director

  
Matt Linneman,  
AASHTO COMP Chair

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# SCOPE OF AASHTO ACCREDITATION FOR:

Patriot Engineering and Environmental, Inc.  
in Louisville, Kentucky, USA

## Quality Management System

| Standard:        |                                                                                                                | Accredited Since: |
|------------------|----------------------------------------------------------------------------------------------------------------|-------------------|
| R18              | Establishing and Implementing a Quality System for Construction Materials Testing Laboratories                 | 09/27/2011        |
| C1077 (Concrete) | Laboratories Testing Concrete and Concrete Aggregates                                                          | 02/14/2023        |
| E329 (Concrete)  | Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction | 01/20/2026        |



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## Soil

### Standard:

### Accredited Since:

|       |                                                                                                     |            |
|-------|-----------------------------------------------------------------------------------------------------|------------|
| R58   | Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test                               | 09/27/2011 |
| T88   | Particle Size Analysis of Soils by Hydrometer                                                       | 09/27/2011 |
| T89   | Determining the Liquid Limit of Soils (Atterberg Limits)                                            | 09/27/2011 |
| T90   | Plastic Limit of Soils (Atterberg Limits)                                                           | 09/27/2011 |
| T99   | The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop   | 09/27/2011 |
| T180  | Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop      | 09/27/2011 |
| T265  | Laboratory Determination of Moisture Content of Soils                                               | 09/27/2011 |
| T310  | In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) | 11/01/2011 |
| D421  | Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test                               | 09/27/2011 |
| D422  | Particle Size Analysis of Soils by Hydrometer                                                       | 09/27/2011 |
| D698  | The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop   | 09/27/2011 |
| D1140 | Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve                              | 09/27/2011 |
| D1557 | Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop      | 09/27/2011 |
| D2216 | Laboratory Determination of Moisture Content of Soils                                               | 09/27/2011 |
| D2487 | Classification of Soils for Engineering Purposes (Unified Soil Classification System)               | 09/27/2011 |
| D2488 | Description and Identification of Soils (Visual-Manual Procedure)                                   | 09/27/2011 |
| D4318 | Determining the Liquid Limit of Soils (Atterberg Limits)                                            | 09/27/2011 |
| D4318 | Plastic Limit of Soils (Atterberg Limits)                                                           | 09/27/2011 |
| D6938 | In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) | 11/01/2011 |



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## Aggregate

### Standard:

### Accredited Since:

|                                                                                  |                  |
|----------------------------------------------------------------------------------|------------------|
| C40 Organic Impurities in Fine Aggregates for Concrete                           | 12/30/2022       |
| C117 Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing | 09/27/2011       |
| C136 Sieve Analysis of Fine and Coarse Aggregates                                | <b>Suspended</b> |
| C566 Total Moisture Content of Aggregate by Drying                               | 09/27/2011       |
| C702 Reducing Samples of Aggregate to Testing Size                               | 09/27/2011       |
| D75 Sampling Aggregate                                                           | 07/25/2018       |



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## Concrete

### Standard:

### Accredited Since:

|                            |                                                                                                             |            |
|----------------------------|-------------------------------------------------------------------------------------------------------------|------------|
| C31 (Beams)                | Making and Curing Concrete Test Specimens in the Field                                                      | 09/20/2012 |
| C31 (Cylinders)            | Making and Curing Concrete Test Specimens in the Field                                                      | 09/20/2012 |
| C39                        | Compressive Strength of Cylindrical Concrete Specimens                                                      | 09/20/2012 |
| C78                        | Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)                                  | 09/20/2012 |
| C138                       | Density (Unit Weight), Yield, and Air Content of Concrete                                                   | 09/20/2012 |
| C143                       | Slump of Hydraulic Cement Concrete                                                                          | 09/20/2012 |
| C172                       | Sampling Freshly Mixed Concrete                                                                             | 09/20/2012 |
| C173                       | Air Content of Freshly Mixed Concrete by the Volumetric Method                                              | 01/20/2026 |
| C231                       | Air Content of Freshly Mixed Concrete by the Pressure Method                                                | 09/20/2012 |
| C511                       | Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes | 09/20/2012 |
| C617 (5000 psi and below)  | Capping Cylindrical Concrete Specimens                                                                      | 01/20/2026 |
| C1064                      | Temperature of Freshly Mixed Portland Cement Concrete                                                       | 09/20/2012 |
| C1231 (7000 psi and below) | Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders                | 09/20/2012 |