

GeoTesting Express, LLC. (GTX), provides soil testing services for all types of earthwork applications.

Accredited by:

- AASHTO Accreditation Program (GA and MA)
- A2LA (MA)

Validated by

- U.S. Army Corps of Engineers (MA and GA)

Capabilities of GeoTesting Express' Soil Testing

GeoTesting Express provides soil testing services for all types of earthwork applications. Our laboratories perform over 100 standard soil tests according to the appropriate [American Society for Testing and Materials \(ASTM\)](#), [American Association of State Highway and Transportation Officials \(AASHTO\)](#), [International Organization for Standardization \(ISO\)](#) and [United States Army Corps of Engineers \(USACE\)](#) standards. Our capabilities range from basic index tests to sophisticated strength and compressibility tests. Our automated testing equipment and experienced staff allows us to provide rapid, high quality and professional test results.

Typical Strength & Compressibility Tests

Test Method

| | |
|--|---------------------------------|
| California Bearing Ratio (CBR) | ASTM D1883/ AASHTO T 193 |
| Consolidated Drained (CD) Triaxial Shear | ASTM D7181/ USACE EM1110-2-1906 |
| Consolidated Undrained (CU) Triaxial Shear with Pore Pressure Measurements | ASTM D4767/ AASHTO T 297 |
| Constant Rate of Strain Consolidation | ASTM D4186 |
| Cyclic Triaxial - Modulus and Damping | ASTM D3999 |
| Cyclic Triaxial - Load Controlled | ASTM D5311 |
| Direct Shear | ASTM D3080 AASHTO T 236 |
| Direct Simple Shear / Cyclic Simple Shear | ASTM D6528 |
| Incremental Consolidation | ASTM D2435/ AASHTO T 216 |
| Residual Shear | USACE EM1110-2-1906 |
| Resilient Modulus | AASHTO T 307 |
| Resonant Column/Torsional Shear | ASTM D4015 |
| Swell of Cohesive Soil | ASTM D4546 |
| Torsional Ring Shear (residual or fully softened) | ASTM D6467 /D7608 |
| Unconfined Compression | ASTM D2166/ AASHTO T 208 |
| Unconsolidated Undrained (UU) Triaxial Shear | ASTM D2850/ AASHTO T 296 |



For More Information Contact:

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Soil Testing

Full Service Laboratory and Field Testing of Soil, Rock and Geosynthetics

- We strive to have the fastest turnaround time available by utilizing automated testing equipment.
- Our technicians are: certified by NICET, OSHA safety trained and Troxler-certified for nuclear density gauge use.
- We actively participate in ASTM creating new and improving existing test standards.
- We can provide testing services on contaminated soils.
- We have extensive international experience with the ability to receive foreign soils for testing as we maintain a license with USDA.

| Typical Soil Index and Hydraulic Tests | Test Method |
|---|--------------------------------|
| Atterberg Limits | ASTM D4318/ AASHTO T 90 |
| Capillary-Moisture Relationship (fine and coarse grained) | ASTM D3152 / D2325 |
| Density | ASTM D2937/ D7263 |
| Electrical Resistivity | ASTM G57 |
| Fixed Wall Permeability | ASTM D2434/ AASHTO T 215 |
| Flexible Wall Permeability | ASTM D5084/ USACE EM 1110 |
| Grain Size Analysis | ASTM D422/ D6913 / AASHTO T 88 |
| Lab Vane Shear | ASTM D4648 |
| Modified Proctor | ASTM D1557/ AASHTO T 180 |
| Moisture Content | ASTM D2216/ AASHTO T 265 |
| Organic Content | ASTM D2974/ AASHTO T 267 |
| Percent Passing #200 Sieve | ASTM D1140 |
| pH | ASTM D4972 |
| Relative Density (Minimum & Maximum Index Density) | ASTM D4253/ D4254 |
| Classification | ASTM D2487/ USDA Textural |
| Specific Gravity | ASTM D854/ AASHTO T 100 |
| Standard Proctor | ASTM D698/ AASHTO T 99 |
| Visual Classification | ASTM D2488 |

| Typical Soil Stabilization/ Solidification Tests | Test Method |
|--|--------------------------|
| Compressive Strength of Soil-Cement | ASTM D1633 |
| Freezing and Thawing of Soil-Cement Mixtures | ASTM D560 / AASHTO T 136 |
| Making and Curing Soil-Cement Samples | ASTM D1632 |
| Moisture-Density Relations of Soil-Cement Mixtures | ASTM D558 / AASHTO T 134 |
| Preparing Soil-Lime Mixtures | ASTM D3551 |
| Wetting and Drying of Soil-Cement Mixtures | ASTM D559 / AASHTO T 135 |