



## GESTRA ENGINEERING INC

*Laboratory & field  
Testing*

GESTRA is equipped to handle virtually all of the geotechnical laboratory and field testing needs of our clients. GESTRA's geotechnical laboratory is an AMRL (AASHTO Materials Reference Laboratory) certified laboratory for several common geotechnical tests. The laboratory and field testing offered by GESTRA include the following test methods, The large majority of which are completed in-house.

### Lab Testing:

- Consolidated Undrained Triaxial Test (ASTM D4767)
- Unconsolidated Undrained Triaxial Test (ASTM D2850)
- One-Dimensional Consolidation Test (ASTM 2435)
- Permeability Test (ASTM D5084)
- Swelling Potential Test (ASTM D4546)
- Expansion Index Test (ASTM D4289-08a)
- Unconfined Compressive Strength Testing (ASTM D2166)
- Hydrometer Analysis (ASTM D422)
- Mechanical Sieve Analysis (ASTM D422)
- Percent Passing #200 Sieve Test (ASTM D1140)
- Atterberg Limits (ASTM D4318)
- Soil Compaction Test (ASTM D1557)
- Soil Suction Test (ASTM D5928-03)
- Rock Quality Designation of Rock Core (ASTM D6032-08)
- Mc Miller Soil Resistivity Test (ASTM G 57-78)
- Dry Density Test (ASTM D7263-09)
- Specific Gravity (ASTM D854-02)
- Moisture & Organic Content (ASTM D2216 & D2974)



### Field Testing:

- Standard Penetration Test & Split Spoon Sampling (ASTM D1586)
- Shelby Tube Sampling (ASTM D1587)
- Rock Coring (ASTM D2113)
- Vane Shear Testing (ASTM D2573)
- Pressure Meter Testing (ASTM D4719)
- Dynamic Cone Penetrometer Testing (ASTM D6951-03)
- Piezometer Installation & Water Level Monitoring (ASTM D5092)
- Slope Inclinator Installation & Testing (ASTM D6230)
- Nuclear Moisture-Density Testing (ASTM D2922 & D3017)
- Geoprobe Direct-Push Sampling (ASTM D 6282-98)
- Visual Identification of Soil (ASTM D2488)



Geotechnical – Structural – Pavement – Construction Materials

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