

## **CAMERON F. TROXEL, E.I.T.**

**Staff Engineer**

### **SUMMARY OF QUALIFICATIONS**

Mr. Troxel began work at GeoSystems Engineering, Inc. during the summer of 2006 as an Engineering Intern. The following year, Mr. Troxel worked as a Field Engineer and later as a Staff Engineer once graduated from the Georgia Institute of Technology with a degree in Civil Engineering. While at GeoSystems, Mr. Troxel has been involved in multiple large subsurface investigations and construction monitoring projects utilizing a variety of field investigative techniques and analysis methods and software. Prior to joining GeoSystems, Mr. Troxel worked at Hi-Line Engineering, LLC as an Engineering Intern.

### **EDUCATION**

B.S., Civil Engineering, Georgia Institute of Technology, High Honors, Atlanta, Georgia, 2007

### **PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers  
Chi Epsilon Honor Society

### **FIELDS OF EXPERTISE**

Mr. Troxel has been a part of many large geotechnical explorations and subsurface investigations for a variety of structure types including elevated and ground storage tanks, deep shoring support, commercial and residential buildings, water/wastewater treatment facilities, embankments, and irrigation networks. He has managed and coordinated a variety of contractors in the field. He has also performed a variety of calculations and analyses to determine settlement, slope stability, bearing capacity, hydraulic conductivity, and liquefaction.

### **SELECTED PROJECT EXPERIENCE**

#### **Wastewater Treatment Facility at Paga Mine, Cartersville, Georgia:**

Subsurface investigation and site assessment of old strip mine complex. Sampling and analysis of water and sediment in existing tailing ponds. Potentiometric mapping of groundwater.

#### **Raw Water Intake Structure, City of Cumming, Cumming, Georgia:**

Subsurface investigation of hillside for intake structure and lakebed for extended intake pipe. Lake exploration included drilling and sampling from barge on surface of Lake Lanier.

#### **New Wye Track Embankment, Norfolk Southern Corporation, Savannah, Georgia:**

Subsurface exploration for new railway track to be placed over lengths of wetland soils. Investigation included cone penetration testing (CPT) in soft soils. Complicated logistics involved testing from timber mats placed across the wetland. Data reduction and analysis included developing soil strength parameters, settlement calculations and estimates, slope stability assessment, and seismic risk assessment.

#### **4W Farm Development Land Application System, Atlanta, Georgia:**

Conducted numerous insitu permeability tests to determine site hydraulic conductivity values for a planned large irrigation system. Project also included field drilling and undisturbed soil sampling for laboratory analysis.

#### **Westpoint Tank Stability Analysis, Westpoint, Georgia:**

Subsurface investigation and analysis relative to tank stability on nearby slope.

#### **Terminus Building, Atlanta, Georgia:**

Monitoring of deep shoring design for expansive excavation required for foundation and underground parking garage for new high-rise in Buckhead. Monitoring included inclinometer readings at select piles, pressure cell readings, and reduction of accumulated data.

#### **Atlanta Lift Station and Force Main, Clayton County Water Authority, Forest Park, Georgia:**

Site assessment for new pipe crossings planned at two major interstates. Investigated site conditions with soil test borings and rock coring and made recommendations relative to construction through dynamic soil conditions.