Terry L. Vines, P.G.

Principal Geologist and Petrographer

EDUCATION

B.S. Geology, 1972, Georgia State University
One year of graduate studies in petrography – University of Georgia

PROFESSIONAL REGISTRATIONS

Professional Geologist, GA (570), AL (916)

PROFESSIONAL MEMBERSHIPS

Geological Society of America (GSA)
American Association of Environmental & Engineering Geologists (AEG)
Georgia Geological Society (GGS)
Atlanta Geological Society (AGS)

PRESENTATIONS & PUBLICATIONS

AGS: Petrographic Analysis of Concrete and Concrete Materials (February 2017)
AGS: Manufacturing of Portland Cement (May 1998)
Georgia Construction Aggregates Association (GCAA): The Effects of Aggregates on Concrete (March 2017)
Georgia State University: Geological Aspects of the Concrete Industry (November 2000)

CERTIFICATIONS

Geotechnical Instrumentation

CAREER SUMMARY

Mr. Vines joined TCE Services in January of 2017 as the Principal Geologist and a Principal Petrographer performing materials evaluations, and petrographic examinations of aggregates and concrete. He has performed material evaluations utilizing investigative techniques such as petrographic evaluation, x-ray florescence, x-ray diffraction and physical testing.

Prior to joining TCE Services, Mr. Vines worked for Argo USA, formerly known as Lafarge Aggregates and Concrete, for 30 years as the Principle Petrographer. With Argos, Mr. Vines performed petrographic analyses on aggregates, forensic evaluations on concrete from structures, and performed material testing evaluations as described above for TCE Services.

Mr. Vines also worked for Parsons, Brinkerhoff/Tudor Engineering in Atlanta as the Manager of the Technical Services Department that provided engineering geological services, construction testing, petrographic services, and concrete/precast plant inspections on the construction of the MARTA heavy rail transit system. Previously, Mr. Vines worked for various geotechnical and exploration companies.

SPECIALTY EXPERIENCE

Mr. Vines is a Principle Petrographer for TCE Services. He has performed petrographic evaluations of hardened concrete for the purpose of determining causes of distress or surface defects, mix design compliance, determination of concrete constituents including proportions, air void parameters and water-cement ratios. He has also utilized concrete petrography to identify and evaluate alkali aggregate reactions, surface delaminations, mix stability, improper finishing, poor curing, delayed ettringite formation, etc. He further performs petrographic examinations of concrete aggregates.