WJE

Kevin D. Copeland | Senior Associate

EDUCATION
- University of Texas at Austin
  - Bachelor of Science, Civil Engineering, 1995
- Texas A&M University
  - Master of Science, Civil Engineering, 1997

PRACTICE AREAS
- Concrete Production
- Construction Troubleshooting
- Construction Materials Assessment
- Foundations and Retaining Walls
- Laboratory Evaluations
- Research and Product Evaluation
- Materials Investigation

REGISTRATIONS
- Professional Engineer in TX
- ACI Certified Concrete Quality Technical Manager
- ACI Certified Concrete Laboratory Technician - Level 2
- NRMCA Certified Concrete Technologist - Level 4

PROFESSIONAL AFFILIATIONS
- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)
- International Concrete Repair Institute (ICRI)

CONTACT
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EXPERIENCE
Kevin Copeland joined WJE in 2007 and has extensive experience evaluating building products, structural and building systems, pavements, foundations, and expansive soil issues. He is also highly experienced in concrete, admixtures, repair mortars, mineral fillers, and supplementary cementitious materials.

REPRESENTATIVE PROJECTS

Concrete Production
- Lubbock South Water Treatment Plant - TX: Development, testing, and troubleshooting of various concrete mixtures
- Chisolm Trail Parkway - Fort Worth, TX: Laboratory testing and optimization of concrete mixtures
- Potash Corporation - Saskatoon, Saskatchewan, Canada: Ready-mix plant inspection and quarry assessment
- Barbours Cut Terminal Wharf 3 - La Porte, TX: Evaluation and refinement of mixtures for deep-shaft concrete piling installations
- Calvert Cliffs Nuclear Plant - Lusby, MD: Assessment of concrete mixtures for walls and pilasters
- Houston Ship Channel Bridge - TX: Development, testing, and refinement of multiple concrete mixtures
- U.S. State Department Building - Southeast Asia: Ready-mix plant production
- Ameren Power - MO: Evaluation and testing of concrete mixtures for fly ash silos

Construction Troubleshooting
- Evaluation of floor moisture and related distresses on more than thirty projects in Texas
- Hays County Government Center - San Marcos, TX: Assessment of rain-damaged concrete and topping slab installation
- LBJ Freeway Expansion - Dallas, TX: Concrete production quality control
- University of Texas at Austin, Bellmont Hall: Quality control and inspection of concrete facade repairs
- Major Retail Chain - Nationwide: Joist enhancement project

Construction Materials Assessment
- Central Artery/Tunnel Safety Audit - Boston, MA: Field inspection of structure and walls of tunnel roadways and plenums

- Everglades National Park - Flamingo, FL: Assessment of breezeway slab and columns in marine environment
- Barton Springs Bypass Culvert - Austin, TX: Evaluation of historic concrete
- Hornsby Bend - Austin, TX: Assessment of digester tank

Foundations and Retaining Walls
- Multifamily Residences - Austin, TX: Evaluation and mitigation of foundation movement, cracking, and building distress
- Private Residences - Central Texas: Evaluation of slab moisture and floor coverings

Laboratory Evaluations
- California Department of Transportation (CALTRANS): Evaluation of approximately thirty aggregate sources, including alkali-silica reaction testing procedures
- Palo Verde Nuclear Water Reclamation Facility - Tonopah, AZ: Evaluation of repair mortars and distress studies, including early-age and long-term shrinkage
- Port of Houston Authority - Houston, TX: Laboratory testing of field samples representing multiple wharf structures

Research and Product Evaluation
- LBJ Library Plaza - Austin, TX: Evaluation and testing of pervious concrete
- Comal County Dam - San Marcos, TX: Testing of roller compacted concrete
- Internal Research: Evaluation of post-tensioning grouts for volume change, permeability, bleed, and settlement, including inclined tube testing

TECHNICAL COMMITTEES
- NRMCA Research, Engineering, and Standards Committee
- TACA Specifications Committee
- ACI 564 Committee - 3-D Printing with Cementitious Materials

WJE | ENGINEERS ARCHITECTS MATERIALS SCIENTISTS