

### Kevin D. Copeland | Senior Associate



#### EDUCATION

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

#### PRACTICE AREAS

- Concrete Production
- Construction Troubleshooting
- Field Inspection
- Foundations and Retaining Walls
- Laboratory Studies
- Materials Investigation
- Failure Investigation

#### REGISTRATIONS

- Professional Engineer in TX

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute - San Antonio and Central Texas chapters
- American Society of Civil Engineers
- International Concrete Repair Institute

#### 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, and pavements.

#### REPRESENTATIVE PROJECTS

##### Concrete Production

- Lubbock South Water Treatment Plant - Lubbock, TX: Development, testing, and troubleshooting of various concrete mixtures
- Potash Corporation - Saskatoon, Saskatchewan, Canada: Ready-mix plant inspection and quarry assessment
- Comal County Dam - San Marcos, TX: Testing of roller compacted concrete
- Calvert Cliffs Nuclear Plant - Assessment of concrete mixtures for walls and pilasters
- United States State Department - Southeast Asia: Ready- mix plant production

##### Construction Troubleshooting

- Evaluation of floor moisture and related distresses
- 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

##### Field Inspection

- 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
- Major Retail Chain - Nationwide: Joist enhancement project

##### Foundations and Retaining Walls

- Multifamily Residences: Evaluation and mitigation of foundation movement, cracking, and building distress

##### Laboratory Studies

- California DOT: Evaluation of ASR testing procedures
- Palo Verde Nuclear Water Reclamation Facility - Tonopah, AZ: Evaluation of repair mortars and distress studies
- Corps of Engineers: Assessment of potential riprap sources
- Freeze/thaw testing and deicer salt-scaling testing
- Port of Houston Authority - Houston, TX: Laboratory testing of field samples representing multiple wharf structures
- Early-age and long-term shrinkage studies
- Evaluation of post-tensioning grout

##### Materials Investigation

- LBJ Library Plaza - Austin, TX: Evaluation and testing of pervious concrete
- Sealant and curing compound performance
- Determination of in-place concrete strength and equivalent design strengths of historic concrete
- Concrete Wind Turbine Towers: Testing and troubleshooting of mixtures

##### Failure Investigation

- Investigation of failed high-pressure steam expansion loop
- Evaluation of valve closure systems

##### TECHNICAL COMMITTEES

- Texas Aggregates and Concrete Association - Specifications Committee