



HOUSTON CLUB | HOUSTON, TX  
Vibration Monitoring During Implosion



BUSH TERMINAL | BROOKLYN, NY  
Structural Assessment

## Facilities | Engineering Diagnostics

If you own or manage buildings or other infrastructure, you know that these assets require regular maintenance throughout their service lives. Even with proper maintenance, structural and building system components often fail or deteriorate at accelerated rates due to changes in loading and/or environmental exposure conditions, inadequate design, material deficiencies, or natural disasters.

### Experience and Expertise

Terracon's scientists, professional engineers, and architects have extensive experience determining why failures or distresses occur, identifying the most cost-effective solutions, and predicting future performance. Our approach combines hands-on experience with in-house, state-of-the-art laboratory and field testing capabilities.

At Terracon, we have applied our diagnostic skills on thousands of building and infrastructure projects and all types of structures including bridges; parking garages; industrial floor slabs; foundations; pavements; subsurface construction; and steel, concrete, masonry, and timber structures.

Our diagnostic services are tailored to meet your needs as well as the project's needs, and typically include one or more of these tasks:

- Visual Condition Assessment
- Nondestructive Testing
- Load Testing and Instrumentation
- Document Review
- Laboratory Testing and Examination
- Engineering Analysis
- Rehabilitation Plans and Specifications
- Bidding Assistance
- Construction Administration
- Field Testing/Monitoring of Repairs

Terracon maintains more than 80 AASHTO-accredited laboratories to support routine field and laboratory testing needs. We also maintain specialized field laboratory testing capabilities across the United States to supplement those of more than 150 local offices, including:

- Ground Penetrating Radar
- Half-Cell Corrosion Potential Mapping
- Impact Echo and Ultrasonic Pulse Velocity Testing
- Infrared Analysis
- Liquid Penetrant Testing
- Magnetic Particle Testing
- Petrographic Examination
- Radiography
- Strain Gauge Instrumentation
- Ultrasonic Flaw and Thickness Measurements
- Vibration Monitoring



NON-DESTRUCTIVE EXAMINATION



THE FOUR SEASONS HOTEL | NEW ORLEANS, LA  
Concrete Panel Evaluation

## Why Terracon?

**Resourceful.** Terracon’s team of expert materials engineers, structural engineers, mechanical engineers, building enclosure consultants, and environmental scientists allow us to provide thorough, highly accurate analysis and solutions.

**Responsive.** Drawing on our national network of offices, Terracon can act quickly to deliver practical solutions, address immediate safety concerns, and develop cost-effective solutions to restore functionality and improve long-term building performance.

**Reliable.** We deliver consistent quality on every engineering diagnostic project through our collaborative approach and commitment to outstanding client service.

*“I am sure given the opportunity, Terracon will exceed any expectations, and will prove themselves a benefit to any owner.”*

-JAMES H. WORSHAM, SPECIAL OPERATIONS SUPERVISOR, BERKLEY COUNTY SCHOOL DISTRICT



## ENR Rankings 2025

- #3 Asbestos and Lead Abatement
- #11 Top 100 Pure Designers
- #19 Top 500 Design Firms
- #44 Top 150 Global Design Firms
- #68 Top 200 Environmental Firms



Nationwide  
[Terracon.com](http://Terracon.com)

- Facilities
- Environmental
- Geotechnical
- Materials