

# **CONSTRUCTION IMPACT MONITORING**



geocomp.com



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Geocomp offers a comprehensive suite of deformation, vibration, noise, and dust monitoring services to help our clients mitigate and control the impacts of construction activities on nearby people and structures. Our industry-leading approach combines state-of-the-art technology with our team of experts to provide data and recommendations that help our clients to reduce exposure to claims, use fewer resources, and complete work safely and on time.

Construction impact monitoring services benefit your project in these important ways:

**Risk Management** - Continuous monitoring allows for the early detection of issues, reducing the likelihood of damage and costly downtime.

**Data-Informed Decisions** - Monitoring data provides insights for informed decisions, helping make adjustments to equipment, schedules, and processes to manage projects effectively.

**Worker Health & Safety** - Monitoring allows for early identification of hazardous conditions, enabling necessary precautions.

**Community Relations** - Proactive monitoring and addressing concerns demonstrate consideration for the community, fostering positive relationships and reputation.

**Regulatory Compliance** - Monitoring ensures adherence to regulatory limits, avoiding potential legal issues and fines, while maintaining quality of life for all involved.

**Documentation & Accountability** - Monitoring results serve as documentation for regulatory compliance efforts and can be valuable in helping to resolve disputes with potential legal matters.





### **How We Can Help**

- Real-time 24/7, automated, web-based monitoring
- Visual and audible site alarm options
- Automated alerts by email and text for key stakeholders
- Instrument recommendations and cost-effective system design
- Rental and leasing of portable seismographs and sensors
- Vibration construction specifications
- Recommendations to reduce levels
- User-configurable automated reports structured to project requirements
- Solar power, noise/vibration combination units

For more than 40 years, Geocomp has been a trusted partner in advising clients on risk identification and mitigation.

## RELIABLE TRUSTED VALUE-DRIVEN INNOVATIVE

#### **EXAMPLE PROJECTS:**

World Trade Center, NY I-94 Improvements, IL East Side Access, NY Sumner Tunnel, MA Harvard ERC, MA Sunnydale Tunnel, CA Ybor Turning Basin, FL South Ferry Tunnel, NY Museum of Fine Arts, MA Sacramento East River Levee, CA Harvard Science Complex, MA Amazon Warehouse Chicago, IL Braves ATM Office Building, GA St. Jude's Hospital, TN



## **DEFORMATION MONITORING**

### **Automated Motorized Total Stations**

Geocomp utilizes automated total stations to make precise measurements for deformation and settlement monitoring. Using high precision instruments and reflective prisms, the automated systems produce data points at a rapid rate for long periods of time. Our services include:

- Monitoring deformation of structures to a high degree of accuracy with low cost per data point
- Provide all mounting and communication equipment necessary for automating optical survey prism readings
- Assist in providing gravity base pedestals for ensuring stable readings on job sites that may not have structures to provide good line of sight to the monitored area
- Network instruments together when performing readings on tunnels, underground mines, openpits or within tricky urban settings



## iSiteCentral® Data Management & Alerts

Data from any instrument can be incorporated into Geocomp's *i*SiteCentral<sup>®</sup> data management system. On a single platform, authenticated users have access to manage information from documents, maps, and photos all geo-located and time stamped to support informed decisions.



