

SERVICES

Construction Impact Monitoring



 **GeoComp**
A Sercel Business

I-84 dust monitoring project / geocomp.com

Construction Impact Monitoring

At Geocomp, we understand that construction can significantly impact surrounding communities and structures. That's why we offer a comprehensive suite of monitoring services tailored to help you manage and minimize these effects. Our services cover deformation, vibration, noise, and dust, ensuring you can execute your projects with confidence and care.

Why Choose Geocomp Monitoring?

Our advanced monitoring solutions provide you with real-time data and actionable insights, empowering you to:

Enhance Risk Management: Our continuous monitoring allows for proactively identifying potential issues such as structural shifts or excessive vibrations. With early detection, you can address concerns before they escalate, helping you avoid costly repairs, legal claims, and project delays.

Make Data-Informed Decisions: Access to real-time data means you can optimize resources and stay on schedule. You can effectively manage your project lifecycle with accurate information, ensuring successful and cost-effective completion.

Prioritize Worker Health & Safety: Our monitoring systems help you identify hazardous conditions early, such as dangerous vibrations or unsafe noise levels. This enables you to take prompt action, implement safety precautions, and comply with regulations, fostering a safer working environment for your team.

Applicable Across Multiple Sectors

Geocomp's monitoring systems are applicable across various sectors, providing rapid, informed decision making for any project type, including:

- Dams & Levees
- Bridges
- Buildings
- Airports/Ports
- Tunnels
- Mines
- Railways
- Highways



Harvard ERC vibration, dust, deformation monitoring



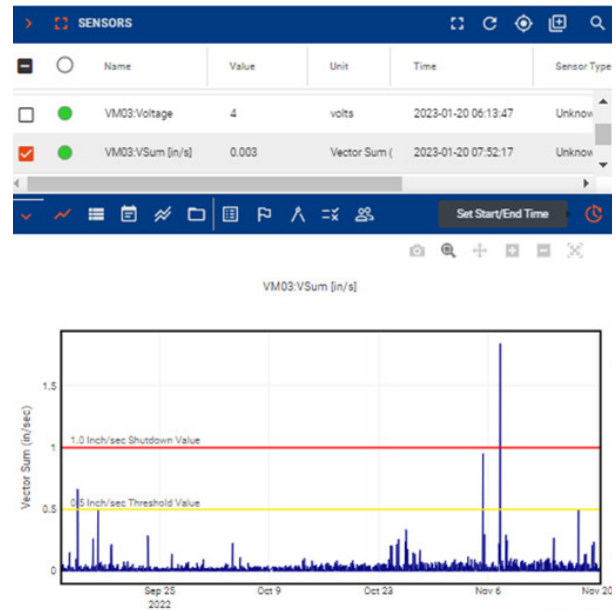
Bayonne Bridge AMTS monitoring

Construction Monitoring Technology

We leverage cutting-edge real-time monitoring technology to provide you with critical insights throughout your project lifecycle. Our systems guarantee timely and accurate data, which is essential for mitigating risks and optimizing project outcomes.

iSiteCentral® Data Management System: Our user-friendly platform integrates data from all monitoring instruments, providing authenticated users with geo-located, time-stamped information, including documents, maps, and reports—all in real-time. This simplifies project oversight and accelerates decision making.

Automated Motorized Total Stations (AMTS): By using AMTS, we provide our client with precise deformation and settlement monitoring data. Our high-precision instruments deliver rapid and accurate data points, minimizing human error and enhancing safety while reducing labor costs.



Vibration limits shown in iSiteCentral®



Mobile automated alert from sensor threshold exceedance

Reliable. Trusted. Value-driven. Innovative.

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

EXAMPLE PROJECTS

World Trade Center (NY)
I-94 Improvements (IL)
East Side Access (NY)
Sumner Tunnel (MA)
St. Jude's Hospital (TN)
Sunnydale Tunnel (CA)
Ybor Turning Basin (FL)

Harvard ERC (MA)
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)

Canopy Hotel (MA)
Central Artery/Tunnel (MA)
Middlebury Monitoring (VT)
Gloucester Commuter Rail (MA)
NYC Noise Control (NY)
Second Ave Subway (NY)
GDOT Vibration Monitoring (GA)

Experience you can trust

With more than 40 years of experience, Geocomp has successfully assisted clients in overcoming construction monitoring challenges. We tailor our technology-driven solutions to meet your needs, helping your projects reach completion both safely and efficiently.

Sumner Tunnel Rehabilitation

During routine inspections, MassDOT identified critical safety and structural issues in Boston's Sumner Tunnel, requiring a full-scale rehabilitation. The project aimed to upgrade safety and electrical systems and install a new tunnel crown—all while minimizing disruptions to the densely populated North End and East Boston neighborhoods. Geocomp supported MassDOT and its contractors by providing real-time monitoring of vibration, noise, and dust levels near sensitive sites like the historic Paul Revere House and the North Bennet Street School. Leveraging our *iSiteCentral*® platform, we provided seamless data collection and sharing with stakeholders, enabling night and weekend work that reduced closure times and minimized community impacts.



Harvard Allston Science Complex

Harvard's Allston Science Complex, a four-building research facility, required a deep 48-foot excavation into challenging Boston blue clay. To safeguard the surrounding infrastructure and ensure project success, Geocomp partnered with Harvard's construction team to design and manage a robust monitoring system for the slurry walls during excavation. Our automated and manual systems, integrated through *iSiteCentral*®, provided real-time data access and issued alerts whenever threshold values were exceeded. This proactive monitoring allowed the engineering and construction teams to mitigate risks, protect nearby properties, and maintain the project's timeline and safety standards.



Geocomp provides cutting-edge solutions leveraging the latest technological advancements to help clients achieve their goals. To learn more visit [geocomp.com](https://www.geocomp.com)

