

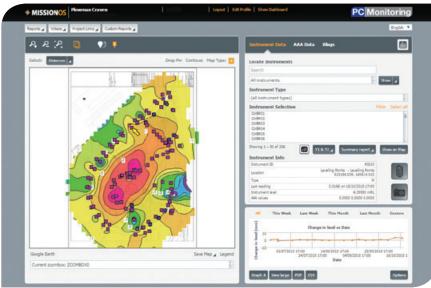
STRUCTURAL & ENVIRONMENTAL MONITORING & ENGINEERING SERVICES



PC Monitoring provides manual and automated structural monitoring, environmental monitoring and engineering services to the construction industry. With a forward-thinking and progressive approach, we deliver expert advice and practical benefits to clients requiring complete and seamless monitoring solutions.

www.pcmonitoring.co.uk













Why choose PC Monitoring?

As part of the technology-driven

Plowman Craven group, we offer
a consultative approach, working
with clients to advise on and manage
all structural, geotechnical and
environmental monitoring requirements.

Our construction monitoring services are fully integrated with PC Enviro, Plowman Craven's environmental monitoring division for centralised installation, management and delivery of a complete package.







Structural Monitoring

Ensuring all buildings and surrounding structures remain stable throughout a construction programme is of primary concern, and just one of the many challenges developers face when undertaking major projects.

Our consultative and expert approach minimises risk and creates programme efficiencies.





Automated Monitoring

PC Monitoring is at the forefront of many major tunnelling and construction developments where precise monitoring and early warning of movement on surrounding structures is a necessity. We're experts in the measurement and monitoring of deformation, deflection and settlement during demolition, excavation and construction works.

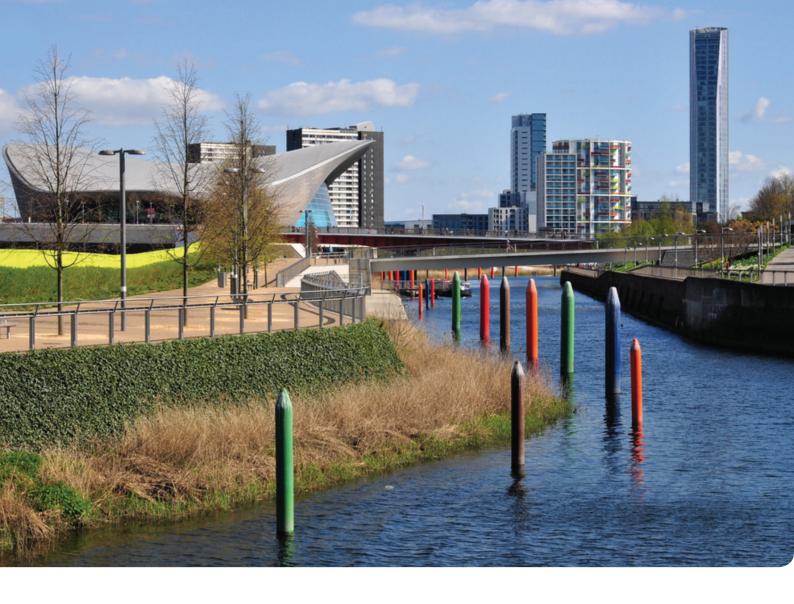
Monitoring schemes, surveys and services:

- Structural
- Condition
- Environmental
- Rail

Measurement:

- Tilt
- Strain
- Crack Width
- Vibration
- Convergence
- Distortion
- Load
- Settlement
- Heave
- Rotation

Manual Monitoring



Environmental Monitoring

Our consultation and participation during the design phases of a development means we're well placed to provide expert advice on noise, air quality and vibration monitoring.

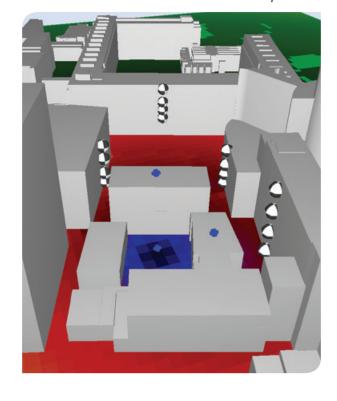
PC Monitoring is fully integrated with our PC Enviro division, helping us to minimise environmental risks for clients, including reputational damage, potential legal action and costly delays due to local authority working restrictions.

Services include:

- Noise, Vibration and Air Quality Monitoring
- Acoustic Modelling, Assessment and Mitigation Advice
- Air Quality Modelling, Assessment and Mitigation Advice
- Consultation and Negotiation with Local Authorities
- Consents and Permits to Work



Noise Heat Map Model



Engineering Services

Positional control during construction works is the key to a successful and error free project.

The importance of establishing and maintaining accurate and robust survey control is a project fundamental. From undertaking topographic surveys and BIM modelling in the early stages, through to setting out, monitoring and as-built surveys in the construction phase, PC Monitoring works closely with Plowman Craven throughout the project lifecycle, ensuring all dimensional surveys are referenced to the same assured control grid, eliminating discrepancies and ensuring all parameters are met throughout the project.



PC Monitoring offers expert consultation, installation and monitoring expertise on a range of projects.

Whether it's establishing control for new office developments, providing grid lines and datums for the setting out of external facades, or verifying accuracies in the construction of pre-fabricated modular tower blocks, our consultative and expert approach minimises risk and creates programme efficiencies.

Services include:

- Control Establishment and Verification
- Grid Lines and Datums
- As-built Surveys
- **Window Alignment Surveys**





Projects

PC Monitoring has been involved with many major projects and has gained extensive experience in managing relationships and approvals processes with infrastructure providers and third parties.



Crossrail Depot, Old Oak Common

Provided a track and structural monitoring system to record any movement of the sensitive assets bordering the site.

- Precision Robotic Total Stations
- Track Prisms
- 3D Structural Prisms
- Web-Hosted Data Visualisation Software



Earls Court Masterplan

Continually involved in this project since 2014, we have supplied both manual and automated monitoring systems to record any movement of sensitive assets bordering and beneath the site.

- Structural Monitoring Scheme
- 3D Structure Prisms and Retro Targets
- Web-hosted Data Visualisation Software



Halifax House Development

Environmental monitoring schemes on party walls, 3D vibration/monitoring of underground sewers and tunnels, local buildings and retained façades plus setting out of gridlines and datums.

- Site Engineering Services
- 3D Track/Tunnel/Façade Monitoring
- Environmental/Vibration Monitoring



Ludgate House Development

Monitoring of Network Rail assets including a viaduct, Blackfriars station and services tunnel running underneath during demolition of existing buildings relating to a new mixed-use development.

- Manual and Automated Schemes
- 3D Track/Viaduct/Tunnel Monitoring
- Tape Extensometer Monitoring



An Integrated Approach

PC Monitoring's Structural,

Environmental and Engineering services are integrated with Plowman Craven's broader surveying and measurement services throughout the project lifecycle. This approach saves our clients valuable time, working with one company rather than several, and creates efficiencies in our delivery, leading to significant cost savings.

Innovation tailored to your needs

Over the last 50 years, Plowman Craven has built a reputation for innovation - PC Monitoring follows this tradition and utilises the tools and technology developed in the business to add value to our monitoring and risk management solutions.

An expert team

Our service is backed by a strong management team which actively engages in each project to provide cost-effective monitoring solutions and consultancy throughout.







- Centralised Management Provides greater control, expertise, flexibility and efficiencies throughout the project lifecycle
- Comprehensive Risk Management We work with clients to identify, manage and mitigate project risks through the provision of technical solutions which fully meet client requirements
- Expert Consultation Backed by a strong management team, providing experienced advice and support
- Cost Efficiencies Realised through combined management, installation and efficient data presentation
- Innovation A range of advanced software packages and web-based platforms provide data access tailored to suit client requirements
- Comprehensive Seamless integration with Plowman Craven's industry-leading BIM, Property and Infrastructure divisions.



PC Monitoring is a division of Plowman Craven

About Plowman Craven

Plowman Craven provides integrated measurement and consultancy services to the property and infrastructure markets, pioneering the use of technical innovation to deliver proven expertise and trusted results throughout the project lifecycle.

With more than 50 years' industry experience, Plowman Craven has contributed to many of the UK's high-profile redevelopment, infrastructure, heritage and estates projects. The company is built on honesty, integrity and a reputation for consistent delivery of quality service to customers who trust our expertise and professionalism.

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