

CONSTRUCTION NOISE, ACOUSTICS, VIBRATION AND AIR QUALITY MANAGEMENT

 Noise and Vibration

 Air Quality

 Wind Gust Forecasting

 Weather Forecasting

 Wind Loads on Cranes

 Building Enclosure Consulting

 Building System Commissioning

 Excess Soil Management

 Wind-blown Dust

When major demolition and/or construction activities occur in proximity to residential and other sensitive receptors, conflicts can arise between the developers, regulatory authorities, and affected communities. The effects of excessive noise, vibration, and/or air quality (NVAQ) can result in significant disturbance and health effects to the occupants of nearby buildings while elevated magnitudes of vibration can induce cosmetic and even structural damage in nearby structures.

Working with a deeply consultative partner with the experience and expertise necessary to solve your project's specific and complex challenges will result in seamlessly tackling project hurdles, staying on time, and remaining within budget. Our in-house team manages diverse local, regional, national, and international construction projects ranging from small scale enabling works to major infrastructure developments lasting several years.

Construction Management Experience

Our full-service team has unrivalled experience in and understanding of construction projects. We have assisted in the provision of advisory, assessment, and/or monitoring services on numerous international construction projects, including:

- High Speed 2 (inc. South Sections S1 & S2, Central Sections C1, C2 & C3);
- London Bridge Station Upgrade;
- Dublin Port Tunnel;



- 22 Bishopsgate, City of London;
- Doha Port, Qatar; and
- Sydney Metro, Australia.

This experience, along with an in-depth understanding of both the Local Authority and Contractor objectives and a range of in-house staff grades, enables us to provide best value and tailored services.

Services

Our expertise provides a complete solution for construction clients looking to identify, manage, and control risks associated with construction noise, vibration, and air quality, including:

- strategic advice, including risk profiling during tendering stages;
- noise, vibration, dust, and air quality assessments;
- baseline surveys;
- preparation of method statements, management plans, and codes of construction practice;
- desktop computerised modelling



- and evaluation and mitigation of surface-based construction effects;
- groundborne noise and vibration from sub-surface works, including tunnelling;
 - input to constructability and value engineering exercises;
 - stakeholder and community engagement activities;
 - presentation of technical evidence and expert witness testimony;
 - administration of noise insulation and dust suppression schemes;
 - toolbox talks and training of contractor staff;
 - Section 61, CoPA 1974 consent applications and appeals;
 - advice on 'best practicable means' for mitigation;
 - negotiations with local authorities;
 - design and implementation of ongoing construction monitoring programs;
 - remote continuous monitoring, analyses, and reporting;
 - data and consent documentation sharing via web-portal;
 - audit and compliance monitoring; and
 - occupational noise, vibration and air quality surveys and advice.

We have a dedicated in-house equipment team responsible for the deployment, management, and maintenance of monitoring equipment and data collection and analysis activities. Please see our

separate information sheet on our construction NVAQ monitoring services.

Accreditations

Southdowns is a corporate member of the Association of Noise Consultants, is accredited under the Achilles RISQS, Achilles UVDB, Achilles Common Assessment Scheme, Achilles Building Confidence SSIP, and Constructionline pre-qualification schemes. Consultants are affiliated with the Institute of Acoustics, Institute of Air Quality Management, and Institute of Environmental Sciences. They also hold Construction Skills Certification Scheme (CSCS) cards.

Want to know more?

Contact us for a complementary initial consultation of your construction project's noise, vibration, and air quality management needs.

Contact enquiries@southdowns.eu.com or visit www.southdowns.eu.com/contact

Looking for other services? Our recent merger with RWDI, an international leader in climate and performance engineering, allows us to offer a wide range of related services for our construction clients.

If you want to know more, contact solutions@rwdi.com or visit rwdi.com.

