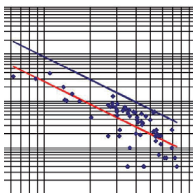


Blast Log® analysis and reporting

Blast Log is a comprehensive blasting analysis and reporting service developed to meet the needs of both operators and regulators.



Key features include:

- Supports and improves compliance with blasting related planning conditions
- Contributes to improved blast performance and blast design
- Regular updating of predictions using ongoing site data
- Providing MICs to the operator that ensure compliance with vibration level planning restrictions by design rather than by accident.

The system's advanced analysis also allows blasting on individual benches or areas to be assessed and the financial and environmental risks and benefits of changes to be evaluated rapidly and reliably, optimising costs and maximising efficiency.

Blast and vibration monitoring

Blast Log Ltd provides a comprehensive service in the monitoring of vibration, air-overpressure and frequency levels for a range of applications.

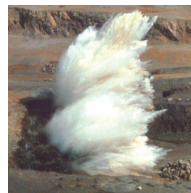


The majority of our monitoring work is for the quarrying and mining industries, where we provide both short and long term monitoring support to suit a client's needs and can act on the client's behalf in reporting to and discussing monitoring schemes with regulators.

Other regular monitoring projects range from one-off explosive demolitions, to longer term mechanical demolitions and the monitoring of piling projects, tunnelling projects and other civil engineering works.

Timing optimisation for electronic detonators

Blast Log Ltd has developed and uses software to analyse and optimise the initiation timings of electronic detonators.



This enables greater control over the blast, the fragmentation and the resultant blast pile.

The optimisation can minimise vibration and has, through greatly increased control, improved confidence and enabled the limit of blasting to be moved significantly closer to a sensitive structure.

Training

Blast Log Ltd provides customised training to suit the specific needs of a wide range of clients, which we typically conduct at the clients' sites.



Training areas include;

- Environmental effects of blasting
- Effects of vibration and air overpressure on buildings and other structures
- Acceptable levels of vibration and air-overpressure for buildings and people
- Good practise techniques for vibration, air overpressure, fly rock and fumes
- Seismograph (blast monitor) training
- Analysis and the proper recording and reporting of vibration results
- Supplementary training to improve on-site blasting procedures
- Understanding scaled distance regression analysis and how it applies to vibration results.

Consultancy

We provide consulting solutions tailored to the individual needs of our clients and implementation of design and remedial works if required.



Consulting areas include, but are not limited to, the following:

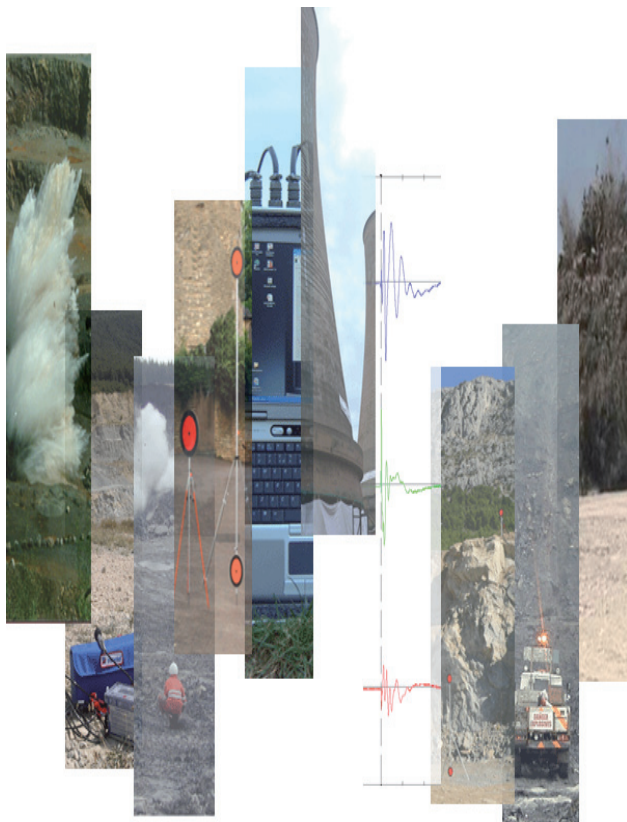
- Provide expert advice with vibration and air overpressure issues
- Assistance with specific blast design issues
- Independent review of blast designs, blasting practises and monitoring procedures
- Building condition surveys prior to the commencement of blasting
- Reduction of the perceived environmental impacts of blasting
- Liaison with neighbours and regulators to assist in the resolution of blasting issues.
- Explosive and economic optimisation of the blasting process
- Expert witness services.

Instrumentation

We design, build, install and maintain, single monitoring units and permanent blast monitoring systems.



Services range from hiring individual seismographs to designing and building bespoke and remotely operated permanent vibration monitoring systems to suit specific requirements.



Key Members of the Blast Log Team

Dr. Bill Birch

Director of Blast Log Ltd

For 21 years Bill worked for British Coal Opencast specialising in environmental issues (particularly blasting) and then for 19 years lectured in Mining & Quarrying in the Department of Mining & Mineral Engineering at the University of Leeds, undertaking extensive and innovative research projects in blasting and related issues. Whilst at the University of Leeds Bill was the Director of the Blasting and Environmental Research Group (BERG) before leaving to continue the development of Blast Log Ltd.

Contact Bill on BillB@blastlog.co.uk

Dr. Alan Cobb

Director of Blast Log Ltd

Alan has over 30 years consulting experience in blasting related issues including blast design; the monitoring, modelling and prediction of environmental effects; and geotechnical implications of quarry blasting, rock mass characterisation and blast fragmentation. Alan also acts as an expert witness regarding blasting issues.

Contact Alan on AlanC@blastlog.co.uk

Ruth Allington

Director of Blast Log Ltd

Ruth has over 25 years consulting experience within the quarrying industry. She has a range of experience in the design of mines and quarries, including co-ordination of technical inputs to the design process and optimisation of operations. Ruth is also active as an expert witness and has extensive experience in the interpretation of operational, geological and hydrogeological issues relating to surface mines and quarries.

Contact Ruth on RuthA@blastlog.co.uk

Dr. Shazad Hosein

Operations Manager/Blasting Engineer

Shazad has over 17 years experience in blasting and explosive techniques, monitoring, analysis and prediction. Shazad also has extensive experience of environmental (vibration & air-overpressure) issues relating to quarrying operations, human response and implementing monitoring schemes.

Contact Shazad on ShazadH@blastlog.co.uk

Head Office: Blast Log Ltd, Upton House, Market Street, Charlbury, Oxfordshire OX7 3PJ. UK

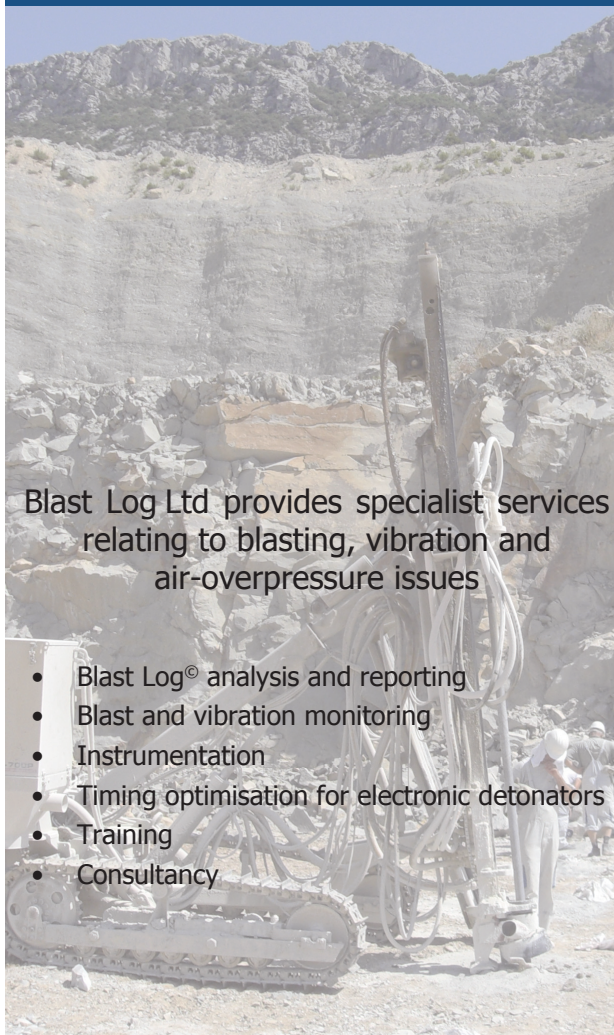
Tel: +44(0)1608 810374 Fax: +44(0)1608 810093

Leeds Office: Blast Log Ltd, Alberma House, 30 Grovehall Parade, Beeston, Leeds LS11 7AE. UK

Tel: +44(0)1133 859870

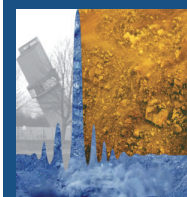
BLAST LOG Ltd

design, performance & compliance



Blast Log Ltd provides specialist services relating to blasting, vibration and air-overpressure issues

- Blast Log® analysis and reporting
- Blast and vibration monitoring
- Instrumentation
- Timing optimisation for electronic detonators
- Training
- Consultancy



info@blastlog.co.uk
www.blastlog.co.uk