

Scientific and analytical  
consultancy services for industry



**Anchem**  
LABORATORIES LIMITED

# EXPERTISE ON SITE AND IN THE LABORATORY

Anchem Laboratories is a multi-disciplined accredited Laboratory offering a range of specialised environmental testing, inspection and analytical services.

Over 38 years experience lies behind the Anchem name, which has grown as a result of our high quality service. Our extensive client base is drawn from both the public and private sector and bears witness to our integrity and professional expertise.

It is this proven capability, combined with our comprehensive technical resources and approved systems and protocols that enable us to successfully meet your most challenging environmental demands whether for assessment, monitoring, analytical testing or investigative consultancy.

## OUR SERVICES INCLUDE



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# STACK EMISSIONS

Anchem has extensive knowledge and experience of emission testing procedures and the requirements of our customers. We operate fully qualified and experienced stack testing teams dedicated to providing valid and accurate data.



- Extractive Sampling and instrumental analysis to current MCERTS and UKAS standards
- Sampling strategies to BS EN 15259
- Compliance monitoring
- Micro-pollutant monitoring including metals to BS EN 14385, mercury to BS EN 13211, Dioxins & Furans and PCB's to BS EN 1948, PAH to BS ISO 11338
- Instrumental analysis for gases including NO<sub>x</sub> to BS EN 14792, CO to BS EN 15058, SO<sub>2</sub> to CEN/TS 17021 and oxygen to BS EN 14789
- Wet chemistry sampling to include HF to PD CEN TS 17340, HCl to BS EN 1911, Ammonia to BS EN ISO 21877, SO<sub>2</sub> to BS EN 14791, water vapour to BS EN 14790 and hydrogen sulphide to USEPA method 11
- Total gaseous organic carbon (TOC) to BS EN 12619
- Particulate to BS EN 13284-1
- Speciated volatile organics and other organic compounds to BS EN 13649



# ASBESTOS CONSULTANCY

Anchem have been engaged in asbestos consultancy work since 1984 and we offer a cost effective independent and impartial UKAS asbestos testing and inspection service to all sectors of industry and commerce.

## ASBESTOS MANAGEMENT SERVICES

We are able to assist duty holders at all levels to ensure compliance with the duty to manage asbestos.

**The professional assistance offered includes the following:**

- Building surveying for management purposes as required under regulation 4 of the Control of Asbestos Regulations 2012 and described in HSG264
- Building surveys for refurbishment and demolition purposes as required under CDM regulations and survey guidance HSG264
- Asbestos re-inspections & material condition surveys
- UKAS accreditation to ISO17020
- Asbestos risk assessments
- Provision of asbestos policies and asbestos management plans
- Complete project management for asbestos removals remediation and risk reduction
- Advice & support on managing asbestos

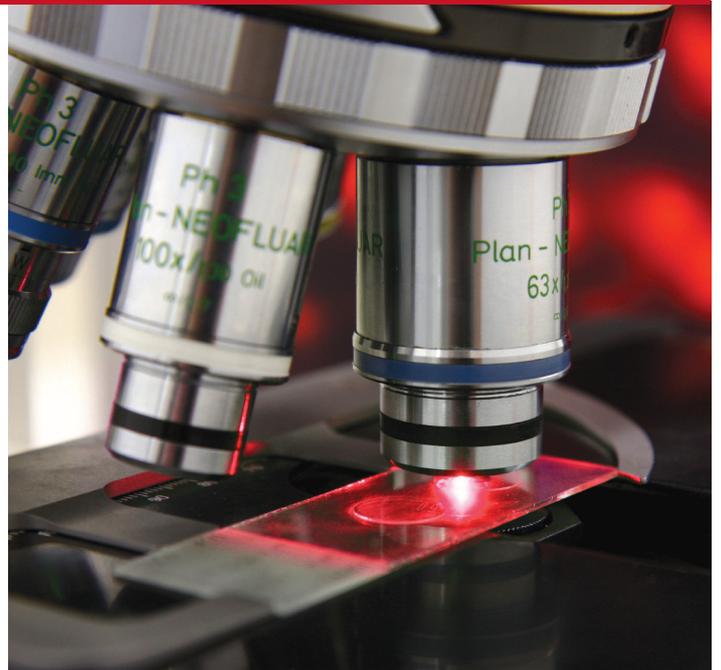
# ASBESTOS TESTING

Asbestos Testing & Training performs a vital role in the management of asbestos. Accurate testing enables duty holders to reduce the risk from asbestos and accidental asbestos exposure.

## ASBESTOS TESTING

Asbestos Testing & Monitoring Programmes can be provided to meet client's specifications and provide project support, including air testing, material testing, advice & consultancy.

- Asbestos material sampling & testing
- Bulk material water absorption testing
- Air sampling, fibre counting & 4-Stage Clearance Testing
- UKAS accreditation to ISO17025 for airborne fibre sampling, fibre counting, asbestos material sampling and polarised light testing of asbestos in materials
- Provision of fully qualified and experienced staff including Certified Competent Persons CCP(Asbestos) and British Occupational Hygiene Society (BOHS) Proficiency Module holders for all of the various asbestos disciplines
- Participation in external proficiency QC schemes RICE & AIMS





## OCCUPATIONAL HYGIENE

Anchem has undertaken a wide variety of occupational hygiene monitoring and assessments for over 30 years. This has enabled the division to gain respect and significant experience within the industrial and private sector.

- Airborne dust – inhalable and respirable fractions, quartz, cristobalite and airborne particulates derived from grinding, drilling, cutting etc.
- Lead in air for compliance with the Control of Lead at Work Regulations
- Airborne species for comparison to HSE publication – EH40 Workplace Exposure Limits (WEL) for determinands such as zinc, cadmium, chromium, volatiles from paint spraying operations and isocyanates
- Noise assessments – to include octave band analysis for hearing protection suitability, personal exposures for compliance with Control of Noise at Work Regulations 2005
- Vibration exposure assessments
- Weld fume assessments to include elemental analyses & ozone
- Rubber fume, wood dust & oil mist
- Machine Made Mineral Fibres (MMMMF), phase contrast microscopy & gravimetric determinations
- COSHH assessments - from workplace atmosphere sampling to full impact reports
- “Sick Building Syndrome” investigations to include temperature and humidity profiles
- Methodologies include MDHS, NIOSH & OSHA etc.
- Degradation products and fumes from polymers and curing oven systems
- DSEAR Assessments



# LOCAL EXHAUST VENTILATION (LEV) TESTING & INSPECTION

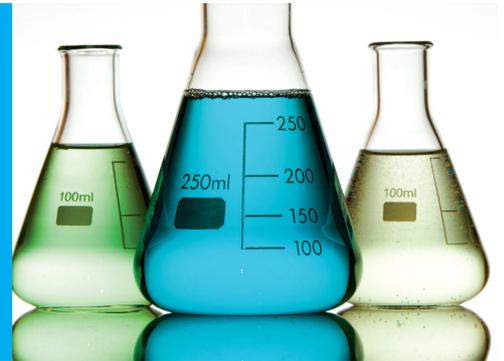
The function of LEV systems is to capture pollutants at source and control exposure

The COSHH Regulations impose a duty to ensure that all LEV systems must be inspected & tested by a competent person at least every 14 months.

- LEV inspections as required under COSHH regulation 9 'Maintenance Examination & Testing of Control Measures'
- Inspections in accordance with HSG258 "Controlling airborne contaminants at work"
- Capture velocities, face velocities, duct (transport) velocities & static pressure readings
- Thorough examination of all system parts for wear & tear. Solid ductwork, flexi hoses, seals, dampers
- Examination of full enclosures (containment), partial enclosures (spray booths, fume cupboards), receiver hoods (grinding, canopy), capture hoods (welding, soldering, lip extraction, downdraught tables)
- Checks on abatements – fans, filters, wet arrestors, self cleaning systems (shake down, air jet pulse)
- Comparison of data with commissioning reports, user manuals, logbooks or previous test reports

## LABORATORY FACILITIES

Anchem undertakes a wide variety of analytical testing using an extensive array of chemical and instrumental techniques.



These capabilities allow us to act as a natural extension of a client's own quality control department. Anchem can also carry out specialist investigative consultancy work for individual projects.

### Organic analysis

- FTIR (Fourier Transform Infra-Red Spectroscopy)
- UV-Vis (Ultra-Violet / Visible Spectrophotometry)

### Inorganic analysis

- AAS (Atomic Absorption Spectrophotometry) - Determination of heavy metals at trace levels
- Hydride and cold vapour generation determination of Mercury, Selenium and Arsenic to part per billion (ppb) levels

### Quantitative and qualitative analysis

- Electrometric methods (pH, conductivity, Ion Selective Electrode)
- Gravimetric methods
- Volumetric techniques

### Waters

- Mains and Private Supply drinking waters to relevant guidance notes
- Effluent analysis for discharge consent limits for compliance purposes
- Leachate testing of landfill sites

### Soils and associated materials

- Determination of heavy metals to trace levels



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