



## Heavy Metals and Associated Analysis for Contaminated Land, Stack Emissions and Environmental Investigation

*The expertise of Analytical Services has many applications, examples of the areas in which the services prove invaluable include:*

- Stack emission filter media and impinger solutions (BS EN 14385:2004)
- BS EN 13284 -1 Manual Determination of Dust
- Air monitoring/Personal sampler analyses
- Total Mercury in impinger solutions (BS EN 13211:2001)
- Mercury screening
- Contaminated Land/Soils analysis
- Analysis of dusts, powders and residues
- Trace element determinations
- Effluent and process water control
- Quality control
- Impurity and contaminant monitoring
- IPPC – Integrated Pollution Prevention and Control analyses to assist in IPPC permit applications

An excellent reputation has been built on a user friendly, interactive and confidential service that responds sensitively to the individual and specific needs of our many and varied customers.

The experience and expertise in analysis of AS is used by many organisations to ensure exacting standards are met.

## Instrumentation

- **ICP-MS (Inductively Coupled Plasma Mass Spectroscopy).**  
This technology allows unchallenged ultra trace level ability to determine a wide range of elements in various sample matrices. ICP-MS allows semi-quantitative and fully quantitative analysis.
  - **ICP-OES (Inductively Coupled Plasma - Optical Emission Spectroscopy).**  
Analysis capable of reporting up to 56 elements simultaneously. Eminently suitable for as-supplied liquid samples and samples that respond to dissolution.
  - **XRF (X-Ray Fluorescence).**  
Regarded as the standard for many applications of major and trace element analysis. From fluorine to uranium.
  - **CV-AFS (Cold Vapour - Atomic Fluorescence Spectroscopy).**  
Ultra low limit of detection for the determination of mercury in a varied range of matrices.
- In addition, the traditional analytical procedures of titration, Infra-red carbon and sulphur, UV-Vis, gravimetry and fire assay are routinely used.*

## Reporting

Reporting times and methods are agreed prior to analysis and are complied with. Each sample must be assessed in

order for a lead-time to be defined. Reporting is by most electronic and physical means as requested.

Further information is available on our website

[www.assayoffice.co.uk/Analytical-Services/Environmental\\_Analysis.asp](http://www.assayoffice.co.uk/Analytical-Services/Environmental_Analysis.asp)



### ENQUIRIES AND TECHNICAL QUERIES

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