



Radioanalytical Services

Managing risks from radioactivity requires accurate measurement of levels in the environment. For effective nuclear site monitoring, dose assessment and control CEFAS provides a comprehensive radioanalytical service for a wide range of food, effluent and environmental samples.



GAMMA SPECTROPHOTOMETRIC ANALYSIS
GROSS ALPHA, BETA AND
GAMMA COUNTING

LIQUID SCINTILLATION
RADIOCHEMICAL ANALYSIS
FOR ALPHA AND BETA EMITTING NUCLIDES

DEDICATED SAMPLE
PREPARATION FACILITIES

Successful track record

CEFAS has over 50 years experience in the collection, preparation and analysis of environmental samples for nuclear site monitoring, dose assessment and control. We routinely perform quantitative and qualitative analysis for alpha, beta and gamma radioactivity on large numbers of samples.



Quality policy

The radioanalytical data produced by CEFAS are amongst the most reliable produced by expert laboratories anywhere in the world.

- operating procedures and quality control programmes prepared to UKAS standards
- high precision and accuracy to recognised national levels
- regular participation in National and International intercomparison exercises (NPL, IAEA etc)

Sample matrices

CEFAS is experienced in the collection, preparation and analysis of a wide range of samples including:

- soils and sediments
- rain, river, lake, marine, drinking and groundwaters
- effluents
- plant and animal tissues
- milk and food products

We have a dedicated sample preparation suite.

Tailored service

- all analytical services are tailored specifically to meet the needs of the customer
- analysis criteria and results can be formatted to suit customer requirements
- rapid sample turn around
- high throughput
- dedicated team of specialist staff

Extensive state-of-the-art facilities

- alpha, beta and gamma radiation counting systems
- quantitative analysis over a range of activity levels (mBq to Mbq)
- very low level alpha spectrometry
- low background high resolution HPGe detectors available from 30% to 95% (rel) efficiency
- modern hardware and gamma spectroscopy software to BS5750/ISO9000 standards

Research, monitoring and assessment

CEFAS's specialist radioanalytical team provide expertise to CEFAS's extensive environmental radionuclide programme of:

- environmental monitoring
- radiological impact assessments
- operational audits
- assessment of contaminated land
- radiological emergencies response
- environmental radionuclide research

For further information about any of our services or to discuss your needs with one of our specialists please contact

