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Eberline Services

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IN SITU GAMMA SPECTROSCOPY SERVICES

Cost-effective, flexible
nondestructive assay



Our *in situ* gamma spectroscopy
technique offers capability to
assay items of any size and shape.



In Situ Gamma Spectroscopy



Defensible, cost-effective waste characterization data is essential to proper management of wastes from operations, remediation, and decontamination and decommissioning activities. With more than 35 years of radiological field characterization experience, Eberline Services is one of the nation's leading providers of radiological characterization services. Our *in situ* gamma spectroscopy services are among the wide range of characterization services we offer.



Our *in situ* gamma spectroscopy services offer the following benefits:

- Cost savings over standard characterization techniques
- Small, light-weight, portable, and battery-powered instrumentation that lends its use to remote deployment and use in small spaces
- Recalibration of equipment for each new matrix or configuration is not required
- Digital storage of data on the locations and concentrations of contaminants and display of the data in near real-time
- Capability to interface with other characterization technologies
- Ability to assay all sizes and shapes of waste packages, including B-25 boxes, 21-ft³ waste boxes, "D" boxes, glove boxes, 55-gal drums, and small containers or any other geometry type
- Ability to optimize the detector-to-item distance to enhance either detection sensitivity or accuracy
- Excellent detection limits in addition to accurate radionuclide quantification from nondetect to transuranic (TRU) levels
- Full isotopics analysis and ratios on Special Nuclear Materials
- Ability to map contaminants to concentration levels and locations.



Project Experience

- Reclassification of suspect TRU waste
- Characterization of low-level waste
- Segregation of low-level from TRU waste
- Segregation of materials for free release
- Site and facility characterization and verification
- Near real-time lab-quality sample analysis.

Data Deliverables

Data can be provided in any client-required format.

Clients

- Los Alamos National Laboratory
- Mound site
- Battelle Columbus
- Hanford site
- Rocky Flats Environmental Technology Site
- Colonie FUSRAP site
- U.S. Army Corps of Engineers and EPA contractors.

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