

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



1502

Accredited to
ISO/IEC 17025:2017

Public Health England, an Executive Agency of the Department of Health (Centre for Radiation, Chemical and Environmental Hazards (CRCE) Glasgow)

Issue No: 031 Issue date: 18 September 2020

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Website: www.phe-protectionservices.org.uk

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address 155 Hardgate Road Glasgow G51 4LS Local contact Lorna Mitchell Tel: +44 (0)141 440 2201 Fax: +44 (0)141 440 0820 Email: Lorna.mitchell@phe.gov.uk Website: www.phe-protectionservices.org.uk	Radiation and Radiochemistry	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Address 155 Hardgate Road Glasgow G51 4LS Local contact Lorna Mitchell	Radiation and Radiochemistry	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL MATERIALS, FOOD AND FOODSTUFFS, INDUSTRIAL EFFLUENTS AND SAMPLES, and WATER	<u>Radiological Testing</u>	Documented In-House Methods:	
	Total alpha activity relative to: Americium-241 (²⁴¹ Am)	Technical Manual Sections 4.6 sample preparation; 7.2 Gas flow proportional counting 7.3 Solid state counting	A
	Total beta activity relative to: Caesium-137 (¹³⁷ Cs) or to Strontium-90 (⁹⁰ Sr)	Technical Manual Sections 4.7 sample preparation; 7.2 Gas flow proportional counting 7.3 Geiger-Muller counting	A
	Gamma spectrometry (Energy Range: 59keV-2MeV)	Technical Manual Section 7.1 using HP-Ge detector	A
	Tritium (³ H)	Technical Manual Section 4.1 Total tritium by combustion and liquid scintillation spectrometry. Inorganic or total tritium by distillation and liquid scintillation spectrometry	A
	Carbon-14 (¹⁴ C)	Technical Manual Section 4.13 by combustion and liquid scintillation spectrometry	A
	Sulfur-35 (³⁵ S)	Technical Manual Sections 4.15 (liquids) and 4.16 (solids) by chemical separation and liquid scintillation spectrometry	A
	Strontium-90 (⁹⁰ Sr)	Technical Manual Section 4.2 & 4.9 by chemical separation and beta particle counting	A
	Technetium-99 (⁹⁹ Tc)	Technical Manual Section 4.17 by chemical separation and beta particle counting	A
Polonium-210 (²¹⁰ Po)	Technical Manual Section 4.14 by chemical separation and alpha particle spectrometry	A	



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ENVIRONMENTAL MATERIALS, FOOD AND FOODSTUFFS, INDUSTRIAL EFFLUENTS AND SAMPLES, and WATER (cont'd)	<u>Radiological Testing</u> (cont'd)	Documented In-House Methods:	
	Sample preparation	Technical Manual Section 4.11	A
	Thorium Isotopes ^{232}Th , ^{230}Th , ^{228}Th ,	Technical Manual Section 4.10 by chemical separation and alpha particle spectrometry	A
	Plutonium Isotopes $^{240+239}\text{Pu}$, ^{238}Pu	Technical Manual Section 4.4 by chemical separation and alpha particle spectrometry	A
	Uranium Isotopes ^{238}U , ^{235}U , ^{234}U ,	Technical Manual Section 4.3 by chemical separation and alpha particle spectrometry	A
	Americium-241 (^{241}Am)	Technical Manual Section 4.5 by chemical separation and alpha particle spectrometry	A
LOW SPECIFIC ACTIVITY SCALES	Gamma spectrometry (Energy Range: 59keV-2MeV)	Technical Manual Section 7.1 using HP-Ge detector	A
	Polonium-210 (^{210}Po)	Technical Manual Section 4.14 by chemical separation and alpha particle spectrometry	A
WATER AND LIQUID EFFLUENTS	Curium Isotopes ^{242}Cm , $^{243+244}\text{Cm}$	Technical Manual Section 4.5 by chemical separation and alpha particle spectrometry	A
NON REGULATORY DRINKING WATER, INDUSTRIAL LIQUIDS AND TRADE EFFLUENTS	Direct Liquid Scintillation spectrometry (beta activity) against a single label standard; H-3 or C-14 or S-35	Technical Manual Section 4.20 by liquid scintillation spectrometry	A
URINE	Plutonium Isotopes $^{240+239}\text{Pu}$, ^{238}Pu	Technical Manual Section 4.4 by chemical separation and alpha particle spectrometry	A



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URINE	<u>Chemical Testing</u> Uranium Isotopes ²³⁸ U, ²³⁵ U, ²³⁴ U,	Documented In-House Methods: Technical Manual Section 4.3 by chemical separation and alpha particle spectrometry	A
URINE	Americium-241 (²⁴¹ Am)	Technical Manual Section 4.5 by chemical separation and alpha particle spectrometry	A
URINE	Uranium (natural or ²³⁸ U)	Technical Manual Section 8.1 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry)	A
GROUNDWATER	Be, Cr, Co, Ni, Cu, Zn, Cd, As, V, U, Tl, Pb	Technical Manual Section 8.2 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry)	A
	Hg	Technical Manual Section 8.3 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry)	A
Groundwater, Soils and Seaweed	Technetium-99 (⁹⁹ Tc)	Technical Manual Section 8.8 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry)	A
SOIL	Be, Cr, Co, Ni, Cu, Zn, Cd, As, V, U, Tl, Pb	Technical Manual Section 8.2, 8.4 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry) using solid sample hotplate digestion	A
	Hg	Technical Manual Section 8.3, 8.4 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry) using solid sample hotplate digestion	A
SOIL (Contaminated with oil)	Hg	Technical Manual Section 8.3, 8.4 by ICP-MS (Inductively Coupled Plasma - Mass Spectrometry) using solid sample hotplate digestion	A



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WASTEWATER, effluent samples	<u>Radiological Testing</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard for Organisations Undertaking Radioanalytical Testing of Environmental and Waste Waters	
	Total alpha activity relative to: Americium-241 (^{241}Am)	Technical Manual Sections 4.6 and 7.3 using Gas flow proportional alpha/beta counter	A
	Gamma spectrometry (Energy Range: 59keV-2MeV)	Technical Manual Section 7.1 using HP-Ge Gamma ray spectrometry	A
	Tritium (^3H)	Technical Manual Section 4.1 and 7.7 by liquid scintillation counting	A
	Strontium-90 (^{90}Sr)	Technical Manual Section 4.2 & 7.3 by Gas flow proportional alpha/beta counter	A
	Technetium-99 (^{99}Tc)	Technical Manual Section 8.8 and 7.7 by Inductively Coupled Plasma - Mass Spectrometry	A
	Plutonium-241 (^{241}Pu)	Technical Manual Section 4.4 and 7.5 by liquid scintillation counting	A
Plutonium Isotopes ^{240}Pu , ^{239}Pu , ^{238}Pu	Technical Manual Section 4.4 by chemical separation and 7.6 by alpha particle spectrometry	A	



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ENVIRONMENTAL MONITORING SITES	<u>Monitoring</u>		
	Gamma-ray air kerma rates	Technical Manual Section 6.2 based on HMIP Technical Guidance Note M5, HMSO 1995	B
	<u>Sampling</u>	Documented In-House Methods in the Technical Manual:	
	Soil	Sections 6.1 and 6.3	B
	Sediment (inter-tidal zone)	Sections 6.1 and 6.4	B
	Vegetation	Sections 6.1 and 6.5	B
	Waters (including surface, estuarine, saline, leachate/borehole)	Sections 6.1 and 6.6	B
	Shellfish (inter-tidal zone)	Sections 6.1 and 6.7	B
Seaweed	Sections 6.1 and 6.8	B	
END			