


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1502</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>United Kingdom Health Security Agency (UKHSA) Radiochemistry</b>	
	<b>Issue No: 037 Issue date: 19 February 2026</b>	
	<b>UKHSA an Executive Agency of the Department of Health and Social Care</b> 155 Hardgate Road Glasgow G51 4LS	<b>Contact: Lorna Mitchell</b> <b>Tel: +44 (0)141 440 2201</b> <b>Fax: +44 (0)141 440 0820</b> <b>E-Mail: Lorna.mitchell@ukhsa.gov.uk</b> <b>Website: www.UKHSA-protectionservices.org.uk</b>

**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
<b>Address</b> 155 Hardgate Road Glasgow G51 4LS	<b>Local contact</b> Lorna Mitchell  Tel: +44 (0)141 440 2201 Fax: +44 (0)141 440 0820 Email: Lorna.mitchell@ukhsa.gov.uk Website: www.UKHSA- protectionservices.org.uk	Radiochemistry Chemistry	A
<b>Address</b> Chilton Didcot Oxfordshire OX11 0RQ	<b>Local contact</b> Lorna Mitchell	Radiochemistry	C

#### Site activities performed away from the locations listed above:

Location details		Activity	Location code
<b>Address</b> 155 Hardgate Road Glasgow G51 4LS	<b>Local contact</b> Lorna Mitchell	Radiation Monitoring and Sampling	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
WATERS ENVIRONMENTAL MATERIALS (Soil, Vegetation, Biota, Air filters), FOOD AND FOODSTUFFS INDUSTRIAL EFFLUENTS and ACID LEACHABLE DETERMINANDS FROM INDUSTRIAL SOLIDS	<u>Radiological Testing</u>	Documented In-House Methods:	
	Total alpha activity relative to: Americium-241 ( <sup>241</sup> 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 ( <sup>137</sup> Cs) or to Strontium-90 ( <sup>90</sup> 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 Gamma Ray spectrometry	A
	Tritium ( <sup>3</sup> H)	Technical Manual Section 4.1 Total tritium by combustion and 7.5 liquid scintillation. Inorganic or total tritium by distillation and 7.5 liquid scintillation	A
	Carbon-14 ( <sup>14</sup> C)	Technical Manual Section 4.13 by combustion and 7.5 liquid scintillation	A
	Sulfur-35 ( <sup>35</sup> S)	Technical Manual Sections 4.15 (liquids) and 4.16 (solids) by chemical separation and 7.5 liquid scintillation	A
	Strontium-90 ( <sup>90</sup> Sr)	Technical Manual Section 4.2 & 4.9 by chemical separation and 7.3 beta particle counting	A
	Technetium-99 ( <sup>99</sup> Tc)	Technical Manual Section 4.17 by chemical separation and and 7.3 beta particle counting	A
Polonium-210 ( <sup>210</sup> Po)	Technical Manual Section 4.14 by chemical separation and 7.6 alpha particle spectrometry	A	



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WATERS ENVIRONMENTAL MATERIALS (Soil, Vegetation, Biota, Air filters), FOOD AND FOODSTUFFS INDUSTRIAL EFFLUENTS and ACID LEACHABLE DETERMINANDS FROM INDUSTRIAL SOLIDS	<u>Radiological Testing</u> (cont'd)	Documented In-House Methods:	
	Sample preparation	Technical Manual Section 4.11	A
	Thorium Isotopes $^{232}\text{Th}$ , $^{230}\text{Th}$ , $^{228}\text{Th}$	Technical Manual Section 4.10 by chemical separation 7.6 alpha particle spectrometry	A
	Plutonium Isotopes $^{240+239}\text{Pu}$ , $^{238}\text{Pu}$	Technical Manual Section 4.4 by chemical separation and 7.6 alpha particle spectrometry	A
	Uranium Isotopes $^{238}\text{U}$ , $^{235}\text{U}$ , $^{234}\text{U}$	Technical Manual Section 4.3 by chemical separation and 7.6 alpha particle spectrometry	A
LOW SPECIFIC ACTIVITY SCALES	Americium-241 ( $^{241}\text{Am}$ )	Technical Manual Section 4.5 by chemical separation and 7.6 alpha particle spectrometry	A
	Gamma spectrometry (Energy Range: 59keV-2MeV)	Technical Manual Section 7.1 using HP-Ge Gamma Ray Spectrometry	A
WATER AND LIQUID EFFLUENTS	Polonium-210 ( $^{210}\text{Po}$ )	Technical Manual Section 4.14 by chemical separation and 7.6 alpha particle spectrometry	A
	Curium Isotopes $^{242}\text{Cm}$ , $^{243+244}\text{Cm}$	Technical Manual Section 4.5 by chemical separation and 7.6 alpha particle spectrometry	A
NON REGULATORY DRINKING WATER, INDUSTRIAL LIQUIDS AND TRADE EFFLUENTS	Beta activity against a single label standard; H-3	Technical Manual Section 4.20 by direct liquid scintillation	A
URINE	Plutonium Isotopes $^{240+239}\text{Pu}$ , $^{238}\text{Pu}$	Technical Manual Section 4.4 by chemical separation and 7.6 alpha particle spectrometry	A



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URINE	<u>Radiological and Chemical Testing</u> Uranium Isotopes $^{238}\text{U}$ , $^{235}\text{U}$ , $^{234}\text{U}$ ,	Documented In-House Methods:  Technical Manual Section 4.3 by chemical separation and 7.6 alpha particle spectrometry	A
URINE	Americium-241 ( $^{241}\text{Am}$ )	Technical Manual Section 4.5 by chemical separation and 7.6 alpha particle spectrometry	A
URINE	Uranium (natural or $^{238}\text{U}$ )	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, TI, 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 ( $^{99}\text{Tc}$ )	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, TI, 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	
	Gamma spectrometry (Energy Range: 59keV-2MeV)	Technical Manual Section 7.1 using HP-Ge Gamma ray spectrometry	A
	Tritium ( <sup>3</sup> H)	Technical Manual Section 4.1 and 7.5 by liquid scintillation counting	A
	Strontium-90 ( <sup>90</sup> Sr)	Technical Manual Section 4.2 & 7.3 by Gas flow proportional alpha/beta counter	A
	Technetium-99 ( <sup>99</sup> Tc)	Technical Manual Section 8.8 and 7.7 by Inductively Coupled Plasma - Mass Spectrometry	A
	Plutonium-241 ( <sup>241</sup> Pu)	Technical Manual Section 4.4 and 7.5 by liquid scintillation counting	A
	Plutonium Isotopes <sup>240+239</sup> Pu, <sup>238</sup> 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>Radiological 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
ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING	Seaweed	Sections 6.1 and 6.8	B
	<u>Radiological Analysis</u>	Documented In-House Methods:	
	Preparation of samples	Preparation using SOPs PR3, PR4, PR5, PR8, PR9 and PR10 by dissolution/digestion	C
	Americium - Am <sup>241</sup> Plutonium - Pu <sup>238</sup> and Pu <sup>239+240</sup>	Analysis using: SOPs Am2 and Pu1 by alpha spectrometry (SOP OP 1)	C
Strontium - Sr <sup>90</sup>	Analysis using SOP Sr1 by gas flow proportional counting (SOP OP2)	C	
Environmental, Biological and Foodstuffs	Radionuclides emitting gamma rays 59-1836 keV	Analysis using SOP 16 by High resolution gamma ray spectrometry	C



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ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING (cont'd)	<u>Radiological Analysis</u> (cont'd)	Documented In-House Methods:	
Milk	Caesium - Cs <sup>137</sup>	Preparation using SOP PR9 by freeze drying SOP OP7  Analysis using; Section 4 of IoR Technical Manual by high resolution gamma ray spectrometry	C
Dust, Soil, Vegetation, Crops, Foodstuffs, Animal Tissue Faeces and Urine	Sample preparation	Preparation using SOPs PR1, PR2, PR3, PR4, PR5, PR6, PR7, PR8, PR11 By dissolution/digestion	C
	Alpha emitting: Americium - Am <sup>241</sup>	Analysis using: SOPs Am2, Pu1 and UT2 By alpha spectrometry SOP OP1	C
	Plutonium - Pu <sup>238</sup> and Pu <sup>239+240</sup> Uranium - U <sup>234</sup> , U <sup>235</sup> , U <sup>238</sup>		
	Beta emitting: Strontium - Sr <sup>90</sup>	Analysis using SOP Sr1  by gas flow proportional counting SOP OP2	C
	Polonium - Po <sup>210</sup> Lead - Pb <sup>210</sup>	Preparation using SOP PR7 Analysis using SOPs Po1 and Pb1 By alpha spectrometry SOP OP1	C
Soil/Sediment, Vegetation, Foodstuffs	Carbon - C <sup>14</sup> Total Tritium - H <sup>3</sup>	Preparation using SOP HC 1 by combustion furnace (pyrolyser)	C
Decommissioning materials (brick, concrete, plaster, wood, floor covering and roofing)		Analysis using SOP OP6 by liquid scintillation	
Waters (Natural, surface, ground)			



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ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING (cont'd)	<u>Radiological Analysis</u> (cont'd)	Documented In-House Methods:	
Water (Natural, surface, ground) Urine	Total Tritium and Aqueous Tritium - H <sup>3</sup>	Preparation using SOP HC1 by distillation  Analysis using SOP OP6 by liquid scintillation	C
Urine	Tritium - H <sup>3</sup>	Preparation and Analysis using HD1 and SOP OP13 by direct liquid scintillation counting	C
Waters (non regulatory drinking water, ground water, surface water and land leachates) and air filters Rapid method.	Total alpha activity relative to: Polonium -209  Total beta activity relative to: Strontium-90	Documented in-house method GAB1 by liquid scintillation counting. Typical limits of detection: waters, total alpha 0.2 Bq/L; total beta 0.5 Bq/L; airfilters, total alpha 0.5 Bq/sample, total beta 1 Bq/sample	C
END			