Schedule of Accreditation

United Kingdom Accreditation Service

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



1875

Accredited to ISO/IEC 17025:2017

Cefas Lowestoft Laboratory

Issue No: 032 Issue date: 22 January 2024

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Testing performed at the above address only

DETAIL OF ACCREDITATION

DE MILE OF MOOREDINATION		
Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BIOTA, BOTANICAL MATERIALS, FISH and SHELLFISH, FOODS and FOOD PRODUCTS, MOLLUSCS, SOILS, SEDIMENTS and WATERS		
		1620 (WPD 5A marine and freshwater weeds) 1621 (WPD 6A soils and sediments) 1622 (WPD7A soils and sediments) 1623 (ODS 1A oven drying) 1624 (GHG 1A dry biota) 1625 (GHG 2A soils and sediments) 1626 (PSC 1A liquids) 1628 (PSC 2A tub and disc geometries) 1629 (MFA 1A ashing) 1627 (WPD 8A terrestrial foods) 2223 (RCT1B)

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BIOTA, BOTANICAL MATERIALS, FISH and SHELLFISH, FOODS and FOOD PRODUCTS, MOLLUSCS, SOILS, SEDIMENTS and WATERS	Determination of alpha emitting radionuclides	Documented In-House Methods: for radiochemical separation and source preparation of alpha emitters. Alpha spectrometric counting - calibration and performance checking of alpha spectrometers and sample counting
	Non-Uranic Actinides	
	Americium - ²⁴¹ Am Plutonium - ²³⁹⁺²⁴⁰ Pu, ²³⁸ Pu Curium - ²⁴² Cm, ²⁴³⁺²⁴⁴ Cm	1648(ARS 1A), 1649(ABP 1A), 1650 (SSP 1A), 1651 (SSP 2A) 1652 (SSP 3A), 1653 (REP 1A), 1654 (CIS 1A), 1655 (QCS 1A) 1656 (PRS 1A), , 1658 (ASU 1A)
	Determination of alpha emitting radionuclides	Documented In-House Methods: for radiochemical separation and source preparation of natural alpha emitters. Alpha spectrometric counting - calibration and performance checking of alpha spectrometers and sample counting
	Lead - ²¹⁰ Pb, and Polonium - ²¹⁰ Po	1663 (NAT 5A)
	Determination of Beta emitting radionuclides	Documented In-house methods using liquid scintillation
	Strontium - 90Sr	1659 (SSP7A)
	Technetium - 99Tc	1665 (SSP 6A) and
	Carbon - ¹⁴ C	1666 (SSP 9A) and
BIOTA, BOTANICAL MATERIALS, SOILS AND SEDIMENTS, AND WATERS	Tritium - ³ H	1633 (DTM 1A)
BIOTA AND SEDIMENTS	Total Alpha Activity - relative to Am-241 Total Beta Activity - relative to K-40	Documented In-house method using proportional counting – 1674 (TB1A)

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BIOTA, BOTANICAL MATERIALS, FISH and SHELLFISH, FOODS and FOOD PRODUCTS, MOLLUSCS, SOILS, SEDIMENTS and WATERS	Quantitative analysis using gamma spectrometry (Energy Range: 60 keV - 2000 keV)	Documented In-House methods covering calibration and performance checking of gamma spectrometers, sample analysis, and data interpretation.
		16341635, 1636 , 1637 , 1638 , 1639 1640 , 1641 , 1642 1643, 1644 , 1645 1646 , 1647
Milk, dairy products, vegetables, fruits, meat products, fish, cereals, grass, seaweed, honey	Carbon - 14C, Tritium - 3H	Method 2241 using furnace combustion with liquid scintillation counting
	Chemical Tests	Documented In-House Method:
Sediment	Polychlorinated Biphenyls: PCB 18 PCB 28 PCB 31 PCB 44 PCB 47 PCB 49 PCB 52 PCB 66 PCB 101 PCB 110 PCB 118 PCB 128 PCB 138 PCB 141 PCB 149 PCB 151 PCB 153 PCB 156 PCB 158 PCB 158 PCB 180 PCB 183	Using GC-ECD SOPs , 1411, 1780, 1779, 1778, 1415 and 1600

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Sediment (cont'd)	Chemical Tests (cont'd) Polychlorinated Biphenyls: (cont'd) PCB 187 PCB 194 SUM OF 25 PCBs ICES 7 (PCB 28, 52, 101, 118, 138, 153, 180)	Documented In-House Method: Using GC-ECD SOPs 1411, 1780, 1779, 1778, 1415 and 1600
Sediment	Total Solids	Total solids SOP 2025
Sediment	Trace Metals: Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc	Partial microwave digestion Using ICP-MS and ICP AES SOPs 2037, 2043 and 2161
Sediment	Trace Metals: Aluminium Arsenic Cadmium Chromium Copper Iron Lead Lithium Manganese Mercury Nickel Rubidium Vanadium Zinc	Using ICP-MS and ICP-OES after Total (HF) microwave digestion SOPs 2155, 2156, 2157
Biota and Sediment	Total Hydrocarbon concentration	Using spectrofluorimetry SOPs 1597,1598 and 1599

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	Chemical Tests (cont'd)	Documented In-House Method:
Biota	Arsenic Cadmium Chromium Copper Iron Lead Manganese Mercury Nickel Selenium Zinc	Microwave digestion using ICP-MS and ICP OES SOPs 1418, 1419, 2160
Biota	Total Solids	Documented in-house method SOP 1592

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	Chemical Tests (cont'd)	Documented In-House Method:
Shellfish and sediments (cont'd)	Polycyclic aromatic hydrocarbons (PAHs): (cont'd)	SOP 2235 using solvent extraction and GC-MS determination
	Polycyclic aromatic hydrocarbons (PAHs) Naphthalene 2-Methyl Naphthalene 1-Methyl Naphthalene C1-Naphthalenes (sum of the methyl naphthalenes) C2-Naphthalenes Acenaphthylene C3-Naphthalenes Acenaphthene Fluorene Dibenzothiophene Phenanthrene Anthracene C1-Dibenzothiophenes C1-Phenanthrenes/anthracenes 2-Methyl Phenanthrene 2-Methyl Phenanthrene C2-Dibenzothiophenes C2-Phenanthrenes/anthracenes Fluoranthene C3-Dibenzothiophenes C2-Phenanthrenes/anthracenes Fluoranthene C3-Dibenzothiophenes C1-Pyrenes/fluoranthenes Benzo[b]naphtho[2,1-d]thiophene Benz[a]anthracene Chrysene C1-Chrysenes Benzo[b]fluoranthene Benzo[e]pyrene Benzo[a]pyrene Benzo[a]pyrene Perylene Indeno[123-cd]Pyrene Dibenz(a,h)anthracene Benzo[ghi]perylene	

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MARINE WATERS	* indicates analysis performed under Food Standards Agency designation as an Official Laboratory in accordance with retained Regulation (EU) 2017/625 Identification and Enumeration of Marine Phytoplankton*	Documented In-house methods SOP 1508, 1509 and 1510 by light microscopy
END		

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