Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0687

Accredited to ISO/IEC 17025:2017

Devonport Royal Dockyard Limited trading as Devonport Materials & Environmental Laboratory

Issue No: 043 **Issue date:** 11 September 2024

PC1417A Devonport Royal Dockyard
Devonport
Plymouth
PL1 4SG

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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 PC1417A Devonport Royal Dockyard Devonport Plymouth PL1 4SG	**Local contact** Contact - Sean O'Hara Tel: +44 (0) 7543 310 331	Health and Hygiene Head Office Asbestos – All Support Functions • Physical and chemical tests • Radiological tests • Asbestos bulk identification • Fibre counting. • Breathing air quality	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Client Premises	**Contact:** Sean O'Hara Tel: +44 (0) 7543 310 331	Health and Hygiene • Sampling of airborne asbestos • Man Made Mineral Fibres • Confined space air quality	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BREATHING AIR	<u>Chemical Tests</u>	Documented In-House Methods, which may be, based on/ incorporating British Standards as referenced. Alternative or additional references are made as appropriate.	
Self contained equipment and piped supplies (To meet the requirements of DEFSTAN 68-284/3 DEFSTAN 02-373 DEFSTAN 02-343 BSEN 12021:2014)	Carbon Monoxide Carbon Dioxide Methane Oil Oxygen Water	DMEL 1/43	A
METALS , ALLOYS AND METAL PRODUCTS	<u>Mechanical Tests</u>		
	Tensile (Forces up to 600 kN)	DMEL 2/31, 2/32, BS EN ISO 6892-1:2019	A
	Bend testing	DMEL 2/7 BS 4206:1967 (superseded) BS EN ISO 7438:2020 BS EN ISO 5173:2023	A
	Impact testing: Charpy(- 80 °C to ambient)	DMEL 2/9 BS EN ISO 148-1:2016	A
	Crystallinity	BS 131:Part 5:1965	
	Hardness Testing:		
	Vickers HV 5, 10, 30	DMEL 2/10 BS EN ISO 6507-1:2023 BS EN ISO 9015-1:2011	A
	Low force Vickers (HV0.5)	DMEL 2/10 BS EN ISO 9015-2:2016	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS , ALLOYS AND METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u> Measurement and Identification of surface features	DMEL 2/28	A
WELDMENTS	<u>Mechanical Tests</u> Tests designated in specified welding codes as detailed below: Bend, Hardness, impact, tensile, macro / micro examination	BS EN 287:Part 1:2011 (Withdrawn) BS EN ISO 9606:Part1:2017 BS EN ISO 9606:Part 2:2004 BS EN ISO 9606:Part 3:1999 BS EN ISO 9606-Part4:1999 BS EN ISO 15614:Part 2:2005 BS EN ISO 15614:Part 1:2017+A1 2019 BS 709:1983 (withdrawn) BS 4206:167 (withdrawn) BS EN ISO 9016:2022 BS EN ISO 5178:2019 BS EN ISO 4136:2022 BS EN ISO 9015-1:2011 BS EN ISO 5173:2023 BS EN ISO17639:2022 BS 1639:1964(1989) (withdrawn) BS EN ISO 5817:2023 BS EN ISO 10042:2018	A
	<u>Radiological Tests</u>		
Process water Trade effluent Saline water Surface water	Tritium assay	DMEL 5/24 by liquid scintillation counting	A
Process water Trade effluent Saline water Surface water	Qualitative and quantitative analysis of gamma-emitting radio-nuclides (88 keV to 1836 keV	DMEL 5/136 by high-resolution gamma spectrometry	A
Process water Trade effluent Saline water Surface water	^{14}C activity	DMEL 5/128 by liquid scintillation counting following sample combustion	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY	Detection and quantification of gamma emitting nuclides ^{137}Cs and ^{60}Co above the limit of detection of 0.01 mSv (Committed Effective Dose)	In-house method NUA(D)-SD-087 using the Canberra Accuscan Whole Body Counter using dual detectors	A
HIGH PURITY WATERS	<u>Chemical Tests</u>		
	Conductivity	DMEL 1/80	A
	pH	DMEL 1/79	A
	Chloride	DMEL 1/1	A
	Suspended solids	DMEL 1/30	A
	pH	DMEL 5/3	A
	Conductivity	DMEL 5/26	A
ASBESTOS FIBRES IN AIR	<u>Health and Hygiene</u>	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021	
	Sampling of air for fibre counting (not testing against clearance indicator)	Documented In-House Method DMEL 4/3 based on HSG 248	B
	Fibre counting	Documented In-House Method DMEL 4/3, Membrane Filter Method using Phase Contrast Microscopy (PCM) based on HSG 248	A
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Sampling of bulk materials for subsequent identification of asbestos	Documented In-House Method based on HSG 248	
	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method DMEL 4/1 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	A

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MAN-MADE MINERAL FIBRES IN AIR (MMMF)	Fibre counting	MDHS 59/2 : June 2014	A
Commercial, Domestic, Industrial and Government Sites and Premises	Sampling of air for fibre counting	MDHS 59/2 : June 2014 by Documented In-House Method DMEL 4/8	B
FUELS OILS AND LUBRICANTS	<u>Chemical Tests</u>		
	Moisture	DMEL 1/62 Coulometric Karl Fischer titration	A
	Acidity	DMEL 1/13 Based on BS 2000: part 1:1995, IP1/94 (2004) – Method B	A
	<u>Physical Tests</u>		
	Flash point	DMEL 1/6 ASTM D93	A
	Viscosity	DMEL 1/56 ASTM D445	A
BREATHING AIR QUALITY Ships Docksides Decompression Chambers Workshops	<u>Physical Tests</u>	Documented In-House Methods referenced where appropriate to a regulatory requirement	
	Water Content	DMEL 1/43	B
Confined Space	Gas free entry certification for: (a) Prior to cleaning (b) After cleaning (c) Naked/temporary lighting (d) Newly painted tanks	DMEL 3/7 Shipbuilding and Ship Repairing Regulations 1960 HSE Guidance Note G85	B
END			