

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2224 Accredited to ISO/IEC 17025:2017	Dounreay Site Restoration Ltd	
	Issue No: 033 Issue date: 01 October 2021	
	Chemistry Support Services Dounreay Thurso Caithness KW14 7TZ	Contact: Miss Fiona Low Tel: +44 (0)1847 803663 E-Mail: fiona.low@dounreay.com Website: www.dounreay.com
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 Chemistry Support Services Dounreay Thurso Caithness KW14 7TZ	Local contact Jeremy Andrew Tel: +44 (0)1847 802992 Email: jeremy.andrew@dounreay.com Website: www.dounreay.com	Radiochemistry Testing Health and Hygiene	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Premises including domestic, commercial and industrial	Health and Hygiene	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
ASBESTOS FIBRES IN AIR	<u>Health and Hygiene</u>	Health and Safety Executive Asbestos: The analysts' guide for sampling, analysis and clearance procedures (HSG 248) and methods for the determination of Hazardous substances in the series MDHS	
	Sampling of air for fibre counting	HSG248:February 2005 (Documented In-House Procedures CSS/CM/148 and CSS/QP/24)	B
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Fibre counting	HSG248:February 2005 Membrane Filter Method using Phase Contrast Microscopy (PCM)	A, B
	Sampling of bulk materials for asbestos identification	HSG248:February 2005 Documented In-House Methods CSS/CM/149 and CSS/QP/24	B
	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House Procedure CSS/CM/126 using stereo-microscopy, polarised light microscopy and dispersion staining	A



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ENVIRONMENTAL SAMPLES Solid and liquid samples including grass Non-routine solid and liquid samples in predefined geometries Solid and liquid samples	Radiochemical Analysis	Documented In-House Procedure Nos	A
	Gamma species (59 – 1836 keV)	Gamma species CSS/CM/117, CSS/CM/124, CSS/CM/125 and CSS/OI/585 by gamma spectrometry	A
	Alpha species	CSS/CM/115, CSS/CM/117, CSS/CM/124, CSS/CM/125 and CSS/OI/583 by alpha spectrometry	A
	Gamma species (59 – 1836 keV)	CSS/CM/131 and CSS/OI/585 by gamma spectrometry	A
	Beta species (Strontium 90)	CSS/CM/117, CSS/CM/124, CSS/CM/125, CSS/CM/18 and CSS/OI/581 by Cerenkov counter	A
HUMAN URINE	Radiochemical Analysis	Documented In-House Procedure Nos	A
	Tritium	CSS/CM/116 and CSS/OI/617 by liquid scintillation counting	A
	Plutonium Americium Thorium	CSS/CM/135 and CSS/OI/583 by ion exchange separation and alpha spectrometry	A
	Uranium 234, Uranium 238	CSS/CM/27 and CSS/OI/583 by alpha spectrometry	A
	Creatinine	CSS/CM/159 by colorimetry (Aquam discrete analyser)	A
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES Stack filter papers	<u>Radiochemical Analysis</u>	Documented In-House Procedure Nos	A
	Gross alpha relative to ²⁴¹ Am	CSS/OI/277 by Berthold LB770 Proportional Counter	A
	Gross beta relative to ¹³⁷ Cs	CSS/OI/277 by Berthold LB770 Proportional Counter	A



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POLLUTANTS AND EFFLUENTS: AQUEOUS	<u>Radiochemical Analysis</u>	Documented In-House Procedure Nos	A
	Gross alpha relative to ²⁴¹ Am	CSS/CM/102, CSS/CM/134 and CSS/OI/281 by liquid scintillation counting	A
	Gross beta relative to ¹³⁷ Cs	CSS/CM/102 and CSS/OI/279	A
	Gamma emitters (59 – 1836 keV)	CSS/CM/102 and CSS/OI/291 by gamma spectrometry	A
	<u>Chemical Analysis</u>		
	Strontium-90	CSS/CM/102, CSS/CM/39 and CSS/OI/281 by Cerenkov counting	A
	Tritium	CSS/CM/102, CSS/CM/48, CSS/CM/47 and CSS/OI/281 by liquid scintillation counting	A
Uranium and isotope ratios	CSS/CM/155, CSS/CM/102, CSS/OI/333 and CSS/OI/340 by ICP-MS	A	



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POLLUTANTS AND EFFLUENTS: AQUEOUS (cont'd)	<u>Chemical Analysis</u>	CSS/CM/102, CSS/CM/122, CSS/OI/333 and CSS/OI/340 by ICP-MS	A
	Antimony Arsenic Barium Beryllium Boron Cadmium Cobalt Chromium Copper Lead Mercury Molybdenum Nickel Tellurium Thallium Tin Silver Vanadium Zinc		A
	Nitrate	CSS/CM/102 and CSS/CM/111 by ion chromatography	
WATERS Ground Waters	Volatile Organic Compounds, Specifically: Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichloroflouromethane 1,1 Dichloroethene Dichloromethane trans 1,2 Dichloroethene Cis 1,2 Dichloroethene 2,2 Dichloropropane Bromochloromethane Chloroform Carbon tetrachloride 1,1,1 trichloroethane 1,1 Dichloropropene Benzene	CSS/CM/154 by purge & trap GC-MS	A



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WATERS Ground Waters (cont'd)	<u>Chemical Analysis (cont'd)</u> Volatile Organic Compounds, Specifically: 1,2 Dichloroethane Trichloroethene Dibromomethane 1,2 Dichloropropane Bromodichloromethane cis 1,3 Dichloropropene Toluene Tetrachloroethene trans 1,3 Dichloropropene Naphthalene 1,2,3 Trichlorobenzene 1,1,2 Trichloroethane dibromochloromethane 1,3 Dichloropropane 1,2 Dibromoethane 1,1,1,2 Tetrachloroethane m/p Xylene o xylene Styrene Bromoform Isopropyl benzene n Propylbenzene Bromobenzene 1,1,2,2 Tetrachloroethane 1,3,5 Trimethylebenzene 2 Chlorotoluene 1,2,3 Trichloropropane 4 Chlorotoluene t Butylbenzene 1,2,4 Trimethylebenzene sec Butylbenzene 4 isopropyl toluene 1,3 Dichlorobenzene 1,4 Dichlorobenzene n Butylbenzene 1,2 Dichlorobenzene 1,2 Dibromo-3-chloropropane Hexachlorobutadiene 1,2,4 Trichlorobenzene	CSS/CM/154 by purge & trap GC-MS	A
END			