


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1325</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Aberdeen City Council</h3> <p>Issue No: 045 Issue date: 05 November 2021</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDINGSTUFFS	<u>Chemical Tests</u>	Documented In-House Methods in the Series PA/IHT/0000
	Contaminants & Composition	Development and Modification of Methods for the analysis of foods using Generic In-House Procedure PA/IHT/3000 for the techniques GC, GC-MS, HPLC, AAS, ICP-OES, UV/Visible Spectrophotometry, Microscopy and Classical Techniques
	Aflatoxins - B1, B2, G1 and G2 and total aflatoxins	PA/IHT/2308 using High Performance Liquid Chromatography (HPLC)
	Ash	PA/IHT/0003
	Lead, Cadmium	PA/IHT/2560 using ICP/OES
	Mercury	PA/IHT/0152 using Cold Vapour AAS
	Moisture	PA/IHT/0007 oven drying
	Nitrogen	PA/VEM/0013 using Digestion Block with Titanium Catalyst and Hydrogen Peroxide
Oil	PA/IHT/0215 using Gravimetry	



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ANIMAL FEEDING STUFFS BREAD AND BREAD PRODUCTS	<u>Chemical Tests</u> Crude fibre	PA/IHT/2062 using Fibretec system
ANIMAL FEEDINGSTUFFS FOOD and FOOD PRODUCTS	<u>Chemical Tests</u> Vitamin A and E	PA/IHT/2320 using HPLC (general and statutory method)
FOOD and FOOD PRODUCTS	<u>Chemical Tests</u>	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series PA/VEM/0000 and Documented In-House Methods in the series PA/IHT/0000
BEVERAGES - ALCOHOLIC		
Spirits	Alcoholic Strength	PA/IHT/0401 using Obscuration using a Pyknometer
	Congeners	PA/VEM/0161 using Gas Chromatography (GC)
Wine	Acidity	PA/IHT/0081 using titrimetry
BEVERAGES - NON-ALCOHOLIC		
Coffee and Coffee Products	Caffeine	PA/VEM/0059 using HPLC
Fruit Juice and Soft Drinks	Acesulfame-K, Aspartame, Benzoic Acid, Caffeine, Saccharin, Sorbic Acid	PA/IHT/2317 using HPLC
	Water Soluble Synthetic Colour	PA/IHT/2309 using HPLC
CEREAL and BAKERY PRODUCTS		
Bread	Moisture	PA/VEM/0222 using Gravimetry
CONFECTIONERY and SUGARS		
Chocolate and Cocoa Products	Theobromine	PA/IHT/2313 using HPLC



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FOOD and FOOD PRODUCTS	<u>Chemical Tests</u>	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series PA/VEM/0000 and Documented In-House Methods in the series PA/IHT/0000
DAIRY PRODUCTS		
Cream	Fat - Routine	PA/VEM/0216 using Gerber Method
Milk	Fat	PA/VEM/0008 using Gerber method
	Titratable Acidity	PA/VEM/0131 using titrimetry
	Freezing Point	PA/IHT/0307 using Thermistor Cryoscope (Routine Method)
DESSERTS	<u>Chemical Tests</u>	
Ice Creams	Fat	PA/IHT/0216 using Gerber Method
FISH AND FISH PRODUCTS	Fish Species Identification	1) PA/VEM/0151 using Iso-Electric Focussing 2) PA/IHT/0063 by Examination of skin and other distinguishing features
	Histamine	PA/IHT/2324 using HPLC
	Total Volatile Basic Nitrogen	PA/IHT/0065 using Steam Distillation followed by Titrimetry
Prawns - Frozen, Cooked and Peeled	Ice Glaze	PA/VEM/0033 using gravimetry
Soft Fruit and Vegetables	Drained Weight	PA/VEM/0052 using gravimetry
Fruit and Vegetables	Soluble Solids	PA/VEM/0247 using refractometry
HONEY and HONEY PRODUCTS	Diastase activity	PA/IHT/0075
	Electrical conductivity	PA/IHT/0076 using EU reference method, Method 12
	Moisture	PA/VEM/0265
	Hydroxymethylfurfural	PA/IHT/2310 using HPLC



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series PA/VEM/0000 and Documented In-House Methods in the series PA/IHT/0000
MEAT, GAME and POULTRY including processed products	L(-)-Hydroxyproline	PA/VEM/0092
	Identification of Beef, Pork, Lamb and Poultry in cooked meat and Meat Products	PA/IHT/0083 using Neogen Cooked Meat ELISA immunoassay kit
	Nitrite	PA/IHT/0101 using Spectrophotometry
	Total Volatile Nitrogen in Flesh Foods	PA/VEM/0157
Foods (general)	Fatty Acid Profile: Saturates Mono-unsaturates Poly-unsaturates	PA/IHT/2151 by analysing fatty acids converted to fatty acid methyl esters using GC
OILS and FATS	Free Fatty Acids - n-Butyric Acid	PA/VEM/0010 PA/IHT/2101 using GC
	Peroxide Value	PA/VEM/0009
SPICES	Aflatoxins - B1, B2, G1 and G2, total aflatoxins and Ochratoxin A	PA/IHT/2327 using HPLC
- Chilli powder	Sudan I colour	PA/IHT/2322 using HPLC



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series PA/VEM/0000 and Documented In-House Methods in the series PA/IHT/0000
FOODS, General	Acrylamide	PA/IHT/2172 using GC-MS
	Aflatoxins B ₁ B ₂ G ₁ G ₂ and total aflatoxins	PA/IHT/2308 using HPLC
	Ash	PA/IHT/0003
	Benzoic Acid and Sorbic Acid	PA/IHT/2302 using HPLC
	Calculation of Energy Value	PA/VEM/0381
	Chloride (Salt as Sodium Chloride by Calculation)	PA/IHT/2303 using IC
	Ethanol	PA/IHT/2103 using GC
	Fat	1) PA/IHT/0014 using Acid Digestion (Werner-Schmid Method) 2) PA/IHT/0214 using Alkaline Hydrolysis 3) PA/IHT/0215 using Acid Digestion and Soxhlet Extraction 4) PA/IHT/0217 using Soxhlet Extraction
	Additives, Colourings, Preservatives and Related Contaminants & Composition	Development and Modification of Methods for the analysis of foods using Generic In-House Procedure PA/IHT/3000 for the techniques GC, GC-MS, HPLC, AAS, ICP-OES, UV/Visible Spectrophotometry, Microscopy and Classical Techniques



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series PA/VEM/0000 and Documented In-House Methods in the series PA/IHT/0000
	Glucose, Fructose and Sucrose in Water Soluble Foods	PA/IHT/2311 using HPLC
	Herbs, Spices and Vegetable Materials	PA/VEMS/0224 by Microscopy
	Ingredients	PA/IHT/0005 using Gravimetry
	Mercury	PA/IHT/0152 using Cold Vapour AAS
	Moisture	PA/IHT/0007 PA/IHT/0008 by Drying on Sand
	Monosodium Glutamate	PA/IHT/2316 using HPLC
	Nitrate and Nitrite	PA/IHT/2307 using HPLC
	Nitrogen	PA/VEM/0013 by Digestion Block using Titanium Catalyst and Hydrogen Peroxide
	pH	PA/VEM/0282
	Total Sugars, Fructose, Glucose, Sucrose, Maltose and Lactose	PA/IHT/2318 using HPLC
	Sodium (Salt by Calculation)	PA/IHT/2540 using ICP-OES
	Sulphur dioxide	PA/IHT/2001
	Synthetic Colours in Water Soluble Foods	PA/IHT/2309 using HPLC
Tin	PA/IHT/2530 using ICP-OES	
Vitamin C	PA/IHT/ 2319 using HPLC	



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FOOD and FOOD PRODUCTS (cont'd)	<u>Physical Tests</u>	Documented In-House Methods in the series PA/IHT/0000
	Water activity	PA/IHT/0085
FOOD and FOOD PRODUCTS	<u>Microbiology Tests</u>	Documented In-House Methods in the series PA/IHT/0000
	Enumeration of :	
DAIRY PRODUCTS Milk and Milk Products	Enterobacteriaceae	PA/IHT/6505 using pour plate technique In house screening method based on ISO 21528-2:2017
	Aerobic Colony Count at 30°C	PA/IHT/6001 based on BS EN 4833-1:2013
	Coagulase-positive staphylococci	PA/IHT/6507 using spread plate technique based on ISO 6888-1:1999+A2:2018 and ISO 6888-2:1999
	Coliforms	PA/IHT/6406 using pour plate technique based on ISO 4832:2006
	<i>Listeria monocytogenes</i> and <i>Listeria</i> species	PA/IHT/6510 using spread plate technique based on ISO 11290-2:2017
	Detection of:	
	<i>Listeria monocytogenes</i> and <i>Listeria</i> species	PA/IHT/6513 using selective enrichment technique based on ISO 11290-1:2017
	<i>Salmonella</i> species	PA/IHT/6508 using selective enrichment technique based on ISO 6579-1:2017+A1:2020
	Detection and enumeration of Enterobacteriaceae	PA/IHT/6517 using MPN based on ISO 21528-1:2017



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FOODS, General	Enumeration of : Aerobic Colony Count in Foods: at 30 °C	1) PA/IHT/6101 using Plate Count Agar by pour plate Incubation for 48h. 2) PA/IHT/6101 based on BS EN 4833-1:2013 by pour plate. Incubation for 72h. 3) PA/IHT/6103 using Plate Count Agar by spread plate. Incubation for 48h.
	<i>Bacillus cereus</i> (Presumptive) Coliforms <i>Clostridium perfringens</i> Enterobacteriaceae β -glucuronidase positive <i>Escherichia coli</i> <i>Listeria monocytogenes</i> and <i>Listeria</i> species <i>Pseudomonas</i> species (presumptive) Coagulase-positive staphylococci	4) PA/IHT/6103 based on BS EN 4833-2:2013 by spread plate. Incubation for 72h. 5) PA/IHT/6104 using Plate Count Agar by spiral plating Incubation for 48h. PA/IHT/6502 using spread plate technique using chromogenic agar PA/IHT/6406 using pour plate technique based on ISO 4832:2006 PA/IHT/6509 using pour plate technique based on ISO 7937:2004 PA/IHT/6505 using pour plate technique based on ISO 21528-2:2017 PA/IHT/6403 based on ISO 16649-2:2001 using surface plating PA/IHT/6510 using spread plate technique based on ISO 11290-2:2017 PA/IHT/6511 using spread plate technique based on BS EN ISO 13720:2010 PA/IHT/6507 using spread plate technique based on ISO 6888-1:1999+A2:2018



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FOOD and FOOD PRODUCTS (cont'd)	<u>Microbiology Tests (cont'd)</u>	Documented In-House Methods in the series PA/IHT/0000
FOODS, General	Enumeration of : Coagulase-positive staphylococci	PA/IHT/6507 based on ISO 6888-2:1999
Shellfish (Prepared)	β -glucuronidase positive <i>Escherichia coli</i>	PA/IHT/6402 using MPN based on ISO 16649-3:2015
FOODS, General (cont'd)	Detection of: <i>Thermotolerant Campylobacter</i> <i>Escherichia coli</i> O157 <i>Listeria monocytogenes</i> and <i>Listeria</i> species <i>Salmonella</i> species	PA/IHT/6501 using selective enrichment technique using Exeter Broth and Modified Campylobacter Blood-free Agar PA/IHT/6408 using Immuno-magnetic separation - in house method PA/IHT/6513 using selective enrichment technique based on ISO 11290-1:2017 PA/IHT/6508 using selective enrichment technique based on ISO 6579-1:2017+A1:2020
POLLUTANTS AND EFFLUENTS ATMOSPHERIC	<u>Chemical Tests</u>	Documented In-House Methods in the series PA/IHT/0000 as listed below
- Air	Nitrogen Dioxide	PA/IHT/8001 using Spectrophotometry



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<p>WATERS</p> <p>Private water supplies Potable waters (including Public water supplies)</p> <p>Drinking waters including Private and Public water supplies</p>	<p>Examination for the purpose of enforcement of The Private Water Supplies (Scotland) Regulations 2006 (SI 2006/209), The Water Intended for Human Consumption (Private Supplies) (Scotland) Regulation 2017 and The Public Water Supplies (Scotland) Regulation 2014</p> <p><u>Chemical Tests</u></p> <p>Colour</p> <p>Conductivity</p> <p>Nitrate, Chloride, Sulphate, Fluoride</p> <p>pH</p> <p>Turbidity</p> <p>Nitrite</p> <p>Ammonium</p> <p>Aluminium Boron Cadmium Chromium Copper Iron Lead Manganese Nickel Sodium Zinc</p> <p>Lead</p>	<p>Methodology meeting the requirements of The Drinking Water Testing Specification</p> <p>Documented In-House Methods</p> <p>PA/IHT/4208 using Spectrophotometry</p> <p>PA/IHT/4204 using conductivity meter</p> <p>PA/IHT/4102 using Ion Chromatography</p> <p>PA/IHT/4203 using pH Meter</p> <p>PA/IHT/4205 using Nephelometry</p> <p>PA/IHT/4104 using Spectrophotometry</p> <p>PA/IHT/4520 using "sealed tube" Spectrophotometry</p> <p>PA/IHT/4523 using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)</p> <p>PA/IHT/4005 using Electrothermal Atomization Atomic Absorption Spectrometry (ETA-AAS)</p>



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<p>WATERS</p> <p>Drinking waters including Private and Public water supplies</p>	<p><u>Microbiological Tests</u></p> <p>Enumeration of:</p> <p>Total Coliforms and <i>Escherichia coli</i></p> <p>Heterotrophic Colony Count</p>	<p>Documented In-House Methods based on MDW Methods</p> <p>PA/IHT/7401 using membrane filtration based on MDW (2016) Part 4A</p> <p>PA/IHT/7001 using pour plate technique based on MDW (2020) Part 7A</p>
<p>WATERS (cont'd)</p> <p>WATERS - Surface, Ground waters and Landfill Leachates</p>	<p><u>Microbiological Tests (cont'd)</u></p> <p>Total Coliforms and <i>Escherichia coli</i></p> <p>Enterococci</p> <p>Sulphite-Reducing Clostridia and <i>Clostridium perfringens</i></p> <p><u>Chemical and Physical Tests</u></p> <p>Alkalinity</p> <p>Ammonium</p> <p>Biochemical Oxygen Demand (BOD)</p> <p>Chloride</p> <p>Electrical Conductivity</p> <p>Nitrate</p>	<p>Documented In-House Methods based on MDW Methods</p> <p>PA/IHT/7404 using Colilert based on MDW (2016) Part 4D</p> <p>PA/IHT/7604 using membrane filtration based on MDW (2012) Part 5A</p> <p>PA/IHT/7602 using membrane filtration based on MDW (2021) Part 6</p> <p>Documented In-House Methods in the series PA/IHT/0000 as listed below</p> <p>PA/IHT/4207 using auto-titration</p> <p>PA/IHT/4520 using Hach "sealed tube" Spectrophotometry</p> <p>PA/IHT/4514</p> <p>PA/IHT/4102 using Ion Chromatography</p> <p>PA/IHT/4204 using conductivity meter</p> <p>PA/IHT/4102 using Ion Chromatography</p>



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WATERS - Surface, Ground waters and Landfill Leachates (cont'd)	<u>Chemical and Physical Tests (cont'd)</u> Nitrite pH Phosphate Chemical Oxygen Demand (COD) Sulphate Suspended Solids Total Organic Carbon (TOC) Antimony Arsenic Barium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Sodium Tin Vanadium Zinc Total Hardness by calculations	Documented In-House Methods in the series PA/IHT/0000 as listed below PA/IHT/4104 by Spectrophotometry PA/IHT/4203 using pH meter PA/IHT/4102 using Ion Chromatography PA/IHT/4519 using Hach "sealed tube" Spectrophotometry PA/IHT/4102 using Ion Chromatography PA/IHT/4512 using gravimetry PA/IHT/4521 using Hach "sealed tube" Spectrophotometry PA/IHT/4524 using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)



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WATERS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Documented In-House Methods in the series PA/IHT/0000 as listed below
Drinking water	Alkalinity	PA/IHT/4207 using auto-titration
	Ammonium	PA/IHT/4520 using Hach "sealed tube" Spectrophotometry
	Chloride	PA/IHT/4102 using Ion Chromatography
	Colour	PA/IHT/4208 using Spectrophotometry
	Electrical Conductivity	PA/IHT/4204 using conductivity meter
	Lead	PA/IHT/4005 using Electrothermal Atomisation Atomic Absorption Spectrometry (ETA-AAS)
	Aluminium	PA/IHT/4523 using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
	Antimony	
	Arsenic	
	Boron	
	Cadmium	
	Calcium	
	Chromium	
	Copper	
	Iron	
	Lead	
	Magnesium	
	Manganese	
	Mercury	
	Nickel	
	Potassium	
	Selenium	
	Sodium	
	Zinc	
	Total Hardness by calculation	
	Nitrate	PA/IHT/4102 using Ion Chromatography



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WATERS (cont'd) Drinking water (cont'd)	<u>Chemical and Physical Tests (cont'd)</u> Nitrite pH Sulphate Total Dissolved Solids and Total Solids Turbidity	Documented In-House Methods in the series PA/IHT/0000 as listed below PA/IHT/4104 using Spectrophotometry PA/IHT/4203 using pH meter PA/IHT/4102 using Ion Chromatography PA/IHT/4222 using gravimetry PA/IHT/4205 by Nephelometry
WATERS (cont'd) Swimming Pool WATER - Bottled Water	<u>Chemical and Physical Tests (cont'd)</u> Total, Combined and Free Chlorine Total Dissolved Solids and Total Solids <u>Chemical Tests</u> Chloride Nitrate Sulphate pH Total solids Total dissolved solids	Documented In-House Methods in the series PA/IHT/0000 as listed below PA/IHT/4219 using titrimetry PA/IHT/4222 using gravimetry Methodology meeting the requirements of The Natural Mineral Water, Spring Water and Bottled Drinking Water Regulations 2007 PA/IHT/4102 using Ion Chromatography PA/IHT/4203 using pH Meter PA/IHT/4222 using drying and gravimetry



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<p>WATER</p> <p>Raw, drinking and recreational waters</p> <p>Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)</p> <p>Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)</p> <p>Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)</p>	<p><u>Microbiology Tests</u></p> <p>Enumeration:</p> <p>Heterotrophic Colony Count</p> <p>Total Coliforms and <i>Escherichia coli</i></p> <p>Total Coliforms and <i>Escherichia coli</i></p> <p><i>Pseudomonas aeruginosa</i></p> <p>Sulphite-Reducing Clostridia and <i>Clostridium perfringens</i></p>	<p>Documented In house methods based on/incorporating published procedures in The Microbiology of Drinking Water (MDW)</p> <p>PA/IHT/7001 using pour plate technique based on MDW (2020) Part 7A</p> <p>PA/IHT/7404 using Colilert based on MDW (2016) Part 4D</p> <p>PA/IHT/7401 using membrane filtration based on MDW (2016)</p> <p>PA/IHT/7601 using membrane filtration based on MDW (2015) Part 8</p> <p>PA/IHT/7602 using membrane filtration based on MDW (2021) Part 6</p>
<p>Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)</p> <p>Drinking waters</p> <p>Pool and spa waters</p> <p>Raw, drinking, domestic, industrial and recreational waters</p>	<p>Enterococci</p> <p>Detection of:</p> <p><i>Escherichia coli</i> O157:H7</p> <p>Coagulase-positive staphylococci</p> <p>Enumeration of:</p> <p><i>Legionella</i> spp (including <i>L. pneumophila</i> group 1, 2-14 and <i>L. spp.</i>)</p>	<p>PA/IHT/7604 using membrane filtration based on MDW (2012) Part 5A</p> <p>PA/IHT/7605 using immuno-magnetic separation based on MDW (2016) Part 4F</p> <p>PA/IHT/7606 using membrane filtration (a customer specified method)</p> <p>Documented In house methods based on ISO standard methods</p> <p>PA/IHT/7608 based on ISO 11731:2017 part 1 using negative membrane filtration and Oxoid dry-spot agglutination kits</p>
END		