





# Water & Environmental Chemistry Aquacheck 2020-21

Aquacheck Proficiency Testing Scheme Application Form



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Please fill in your address details below:

Send Test Materials to:	Send Invoices to:
Contact name:	Contact name:
Department:	Department:
Company:	Company:
Address:	Address:
Town/City:	Town/City:
Post/Zip Code:	Post/Zip Code:
Country:	Country:
Tel:	Tel:
Fax:	Fax:
E-mail:	E-mail:
	VAT no:

Send Report Notifications to:	
Contact name:	#An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system
E-mail#:	

Please indicate the samples and rounds required on pages 2-8.

Clean Waters – Inorganic and Nutrients		Round number(s) required
Sample	Target analytes(s)	
1H Major Inorganic Components (Hard Water)	Calcium; Magnesium; Total Hardness; Alkalinity; Potassium; Sodium; Chloride; Sulfate; Fluoride; Conductivity (20°C); Kjeldahl Nitrogen; Total Phosphorus; Barium	
1S Major Inorganic Components (Soft Water)	Calcium; Magnesium; Total Hardness; Alkalinity; Potassium; Sodium; Chloride; Sulfate; Fluoride; Conductivity (20°C); Kjeldahl Nitrogen; Total Phosphorus; Barium	
2H Nutrients and Others (Hard Water)	Total oxidised nitrogen (TON); Silicate; Nitrite; Ammonia; Soluble reactive phosphorus (PO <sub>4</sub> ); pH at 20-25°C; Conductivity (20°C); Colour; Permanganate index (PI); Total Cyanide; Free Cyanide; Nitrate; Total Dissolved Solids	
2S Nutrients and Others (Soft Water)	Total oxidised nitrogen (TON); Silicate; Nitrite; Ammonia; Soluble reactive phosphorus (PO <sub>4</sub> ); pH at 20-25°C; Conductivity (20°C); Colour; Permanganate index (PI); Total Cyanide; Free Cyanide; Nitrate; Total Dissolved Solids	
<b>N.B:</b> The per annum discount is applicable for all laboratories taking part in a combination of five rounds of 1H+1S or 2H+2S.		
1A Major Ions in Higher Salinity Potable Water	Sodium; Magnesium; Chloride; Sulfate; pH at 20-25°C; Conductivity (20°C); Total organic carbon (TOC); Total Dissolved Solids	
2A pH in Poorly Buffered Waters	pH at 20-25°C – Low; pH at 20-25°C – High	
3 Non-specific Analytes	BOD (5 day); COD; Suspended solids; Methylene blue active substances (MBAS); Non-ionic surfactants; Dissolved organic carbon; Turbidity	
3A Inorganic Disinfection By-products	Bromide; Bromate; Chlorate (low level); Chlorite (low level); Chlorate (high level); Chlorite (high level)	
3B Free Chlorine	Free Chlorine	
3C Total Chlorine	Total Chlorine	
4 Metals	Iron; Manganese; Copper; Aluminium; Zinc; Silver; Barium; Boron; Strontium; Lithium	
4G Metals in Groundwater (Preserved in 0.5% Nitric Acid)	Iron; Manganese; Copper; Aluminium; Zinc; Silver; Barium; Boron; Strontium; Lithium	
5 Toxic Metals (Preserved in 0.5% Nitric Acid)	Cadmium; Lead; Nickel; Selenium; Arsenic; Antimony; Mercury; Cobalt; Vanadium; Chromium; Molybdenum; Tin; Beryllium; Titanium**	

\*\*Please note that these analytes are not currently within the scope of LGC's UKAS accreditation.

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Clean Waters – Inorganic and Nutrients continued		Round number(s) required
Sample	Target analytes(s)	
<b>5A</b> Metals for Hydride Generation (Preserved in 0.5% Hydrochloric Acid)	Arsenic; Selenium; Antimony; Tin	
<b>5B</b> EQS Metals (Preserved in 0.5% Nitric Acid)	Cadmium; Copper; Total Chromium; Lead; Nickel; Zinc; Vanadium; Mercury	
<b>5C</b> Chromium (VI)	Chromium (VI)	
<b>5G</b> Toxic Metals in Groundwater (Preserved in 0.5% Nitric Acid)	Cadmium; Lead; Nickel; Selenium; Arsenic; Antimony; Mercury; Cobalt; Vanadium; Chromium; Molybdenum; Tin; Beryllium; Titanium**; Lanthanum**	
<b>34A##</b> Water Framework Directive	Cadmium; Lead; Mercury; Nickel	
<b>59## TRIAL</b> Bottled Mineral Water	Calcium; Magnesium; Potassium; Sodium; Bicarbonate; Chloride; Sulfate; Nitrate; pH; TDS/Dry Residue	

Clean Waters – Organic		Round number(s) required
Sample	Target analytes(s)	
<b>6A</b> Haloforms & Chlorinated Solvents	Chloroform; Bromodichloromethane; Dibromochloromethane; Bromoform; Trichloroethene; Tetrachloroethene; Carbon Tetrachloride; 1,2 Dichloroethane	
<b>6B</b> Phenols	Phenol; 2-Chlorophenol; 4-Chlorophenol; 3-Bromophenol**; 2,4-Dichlorophenol; 2,4,6-Trichlorophenol; Pentachlorophenol; 2,5-Dimethylphenol**; 3,5-Dimethylphenol**; 2-Methylphenol (o-cresol)**; 3-Methylphenol (m-cresol)**; 4-Methylphenol (p-cresol)**; Total monosubstituted methylphenols**; 4-Chloro-3-methylphenol** <b>NEW</b> ; 2,6-Dichlorophenol** <b>NEW</b> ; 2,4,5-Trichlorophenol** <b>NEW</b> ; 2,4-Dimethylphenol** <b>NEW</b> ; Nonylphenol** <b>NEW</b>	
<b>6C</b> Benzene, Toluene & Xylenes	Benzene; Toluene; Ethylbenzene; Styrene; o-Xylene; m-Xylene; p-Xylene; Total xylene; m+ p-Xylene; 1,2,4-trimethylbenzene**; MTBE (methyl tert-butyl ether)	
<b>7A</b> Organochlorine Pesticides	Endrin; Dieldrin; Aldrin; p,p'-DDT; o,p'-DDT; p,p'-DDE; o,p'-DDE**; p,p'-DDD; o,p'-DDD (TDE)**; Alpha Hexachlorocyclohexane; Beta Hexachlorocyclohexane; Delta Hexachlorocyclohexane; Lindane (Gamma HCH); Trifluralin; Alpha Endosulphan; Beta Endosulphan; Hexachlorobenzene; Heptachlor; Heptachlor epoxide; Pentachlorobenzene; Pendimethalin** Cis-chlordane**; Trans-chlordane** Methoxychlor**; Endosulfan Sulfate** <b>NEW</b> ; Endrin Aldehyde** <b>NEW</b>	
<b>7B</b> Chlorinated Solvents	Hexachlorobutadiene; Carbon Tetrachloride; Tetrachloroethene; 1,2,4-Trichlorobenzene; Trichloroethene; 1,1,1-Trichloroethane; 1,3,5-Trichlorobenzene; 1,2,3-Trichlorobenzene; 1,2-Dichloroethane; Chloroform	
<b>7C</b> Polycyclic Aromatic Hydrocarbons	Fluoranthene; Benzo(b)fluoranthene; Benzo(k)fluoranthene; Benz(a)pyrene; Benzo(ghi)perylene; Indeno(1,2,3-cd)pyrene Acenaphthene; Acenaphthylene; Anthracene; Benz(a)anthracene; Chrysene; Dibenz(ah)anthracene; Fluorene; Naphthalene; Perylene; Phenanthrene; Pyrene	
<b>7D</b> Polychlorinated Biphenyls	PCB (28); PCB (52); PCB (101); PCB (118); PCB (138); PCB (153); PCB (180); PCB (149)** <b>NEW</b> ; PCB (170)** <b>NEW</b>	
<b>8</b> Acid Herbicides	2,4,5-T**; 2,4,5-TP (Fenoprop)**; 2,4-D; 2,4-DB; Dicamba; 2,3,6-TBA**; Picloram**; Clopyralid**; Fluroxypyr**; Benazolin**; Mecoprop; Dichlorprop; Quinmerac**; MCPA; MCPB; Triclopyr; Bentazone; Bromoxynil; Dichlobenil**; Ioxynil; Metaldehyde; Alachlor**; Metazachlor**; Propachlor**; S-metolachlor**; Flufenacet**; Propyzamide; Asulam**; Chloridazon**; Napropamide**; Glyphosate; AMPA	
<b>8B</b> Triazines & Urea Herbicides	Isoproturon; Diuron; Linuron; Chlortoluron; Monuron; Chloroxuron**; Metoxuron**; Monolinuron**; Methabenzthiazuron**; Iodosulfuron methyl**; Mesosulfuron methyl**; Metsulfuron methyl**; Thifensulfuron methyl**; Tribenuron methyl**; Diflufenican**; Bromacil**; Simazine; Atrazine; Propazine; Cyanazine**; Trietazine**; Prometryn**; Terbutryn**; Ametryn**; Desethylatrazine**; Desisopropylatrazine**; Terbutylazine**; Cyromazine**; Carbetamide**; Pirimicarb**; Carbofuran**; Methiocarb**; Prosulfocarb**; Metamitron**; Metribuzin**; Florasulam**	

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0001

Clean Waters – Organic continued		Round number(s) required
Sample	Target analytes(s)	
9 Organophosphorus Pesticides	Azinphos-methyl; Azinphos-ethyl; Dichlorvos; Fenitrothion; Malathion; Mevinphos; Chlorfenvinphos; Diazinon; Fenthion; Parathion-ethyl; Parathion-methyl; Chlorpyrifos; Cypermethrin; Propetamphos <sup>**</sup> ; Dimethoate <sup>**</sup> ; Ethion <sup>**</sup> <b>NEW</b>	
26 PFOS & PFOA	PFOS; PFOA	
28 Formaldehyde	Formaldehyde	
33 <sup>##</sup> Chlorophyll a	Chlorophyll a	
34B <sup>##</sup>	Water Framework Directive	Atrazine; Diuron; Isoproturon; Simazine
34C <sup>##</sup>		Alachlor; Chlorfenvinphos; Chlorpyrifos
34D <sup>##</sup>		4-n Pentylphenol; 4-n Hexylphenol; 4-n Heptylphenol; 4 tert-Octylphenol; 4-n-Nonylphenol; Pentachlorophenol; Bisphenol A
34E <sup>##</sup>		Endosulphan; Hexachlorobenzene; Hexachlorocyclohexane; Pentachlorobenzene; Trifluralin; Hexachlorobutadiene
34F <sup>##</sup>		Benz(a)pyrene; Benzo(b)fluoranthene; Benzo(ghi)perylene; Benzo(k)fluoranthene; Indeno(123-cd)pyrene; Anthracene; Fluoranthene
34G <sup>##</sup>		Tributyltin compounds
34H <sup>##</sup>		1,2-Dichloroethane; Dichloromethane; Trichlorobenzenes; Trichloromethane
34I <sup>##</sup>		2,4,4-Tribromodiphenylether (BDE 28); 2,2,4,4,5-Pentabromodiphenylether (BDE 99); 2,2,4,4,5,6-Hexabromodiphenylether (BDE 154)
34J <sup>##</sup>		DEHP; Benzene; Naphthalene
36 <sup>##</sup> Taste & Odour		TFN; TON
37 <sup>##</sup> Acrylamide	Acrylamide	
38 <sup>##</sup> UV Absorbing Organic Constituents	UV absorption	
39 <sup>##</sup> Geosmin & MIB	Geosmin; Methyl isoborneol	
40 <sup>##</sup> Fungicides	Carbendazim; Chlorothalonil; Fenpropimorph; Flutriafol; Epoxyconazole; Flusilazole; Cyproconazole; Tebuconazole; Azoxystrobin; Boscalid; Kresoxym-methyl; Cyprodinil; Propiconazole; Prothioconazole	
41 <sup>##</sup> Microcystin	Microcystin-LR; Microcystin-YR; Microcystin-RR	
43 <sup>##</sup> Triclosan	Triclosan	
44 <sup>##</sup> Haloacetic Acids	Monochloroacetic acid; Dichloroacetic acid; Trichloroacetic acid; Monobromoacetic acid; Dibromoacetic acid; Tribromoacetic acid <b>NEW</b> ; Bromochloroacetic acid <b>NEW</b> ; Bromodichloroacetic acid; Dibromochloroacetic acid <b>NEW</b> ; 2,2-Dichloropropionic acid <b>NEW</b>	
52 <sup>##</sup> <b>TRIAL</b> Low Level CIP2 contaminants	Benzo(a)pyrene; Fluoranthene; Cypermethrin; PFOS; PFOA	
53 <sup>##</sup> <b>TRIAL</b> EQSD Directive – Low Level Triazines	Simazine; Atrazine; Terbutryn; Alachlor; Diclofol; Bifenox; Quinoxifen	
54 <sup>##</sup> <b>TRIAL</b> Semi-Volatile Organic Compounds	Participants are provided with a solution containing six semi volatile organic compounds (SVOCs) for quantitative determination. A list of potential analytes is provided in the Scheme Description (appendix B).	
55 <sup>##</sup> <b>TRIAL</b> Volatile Organic Compounds (Fumigants)	Bromomethane; 1,2-Dibromo-3-chloropropane; 1,4-Dichlorobenzene; 1,2-Dichloropropane; cis-1,3-Dichloropropene; trans-1,3-Dichloropropene; 1,2-Dibromoethane; 1,2,3-Trichloropropane	
56 <sup>##</sup> <b>TRIAL</b> EQSD Directive – Low Level Organophosphorus & Chlorinated Solvents	Dichlorvos; Fenitrothion; Malathion; Chlorfenvinphos; Diazinon; Chlorpyrifos; Hexachlorobutadiene; 1,2,3-Trichlorobenzene; 1,2,4-Trichlorobenzene; 1,3,5-Trichlorobenzene	
57 <sup>##</sup> <b>TRIAL</b> Pharmaceuticals	Ibuprofen; Propranolol; Ofloxacin; Oxytetracycline; Salicylic acid; Fluoxetine; Diclofenac; Naproxen	
58 <sup>##</sup> <b>TRIAL</b> EQSD Directive – Low Level Organochlorines	Endrin; Dieldrin; Aldrin; p,p'-DDT; o,p'-DDT; p,p'-DDE; p,p'-DDD; Alpha Hexachlorocyclohexane; Beta Hexachlorocyclohexane; Delta Hexachlorocyclohexane; Lindane (Gamma HCH); Trifluralin; Alpha Endosulphan; Beta Endosulphan; Hexachlorobenzene; Heptachlor; Heptachlor epoxide; Pentachlorobenzene; Pendimethalin	

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Page 4 of 8

V1



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Clean Waters – Qualitative		Round number(s) required
Sample	Target analytes(s)	
<b>22</b> Qualitative Organics by GCMS in Clean Water	Ten organic analytes are provided for qualitative identification. This sample is designed to test the ability of laboratories to identify organic compounds via GCMS analysis.	
<b>22A</b> Qualitative Organics by Purge and Trap GCMS in Clean Water	Six organic analytes are provided for qualitative identification. This sample is designed to test the ability of laboratories to identify organic compounds via purge and trap GCMS analysis.	
<b>25</b> Qualitative Determination in Clean Water	The intent of this sample is to test the ability of laboratories to detect and identify an unknown contaminant in surface/potable waters. This sample is designed for laboratories which may be involved in investigating potentially contaminated potable or surface waters and tests both the extraction and identification stages of investigations.	

Waste Waters and Effluents – Inorganic and Nutrients		Round number(s) required
Sample	Target analytes(s)	
<b>10</b> Nutrients and other analytes	Total oxidised nitrogen (TON); Nitrate; Nitrite; Ammonia; Silicate; Soluble Reactive Phosphorus (PO <sub>4</sub> ); Chloride; Total Cyanide; Kjeldahl Nitrogen; Free Cyanide; Total Nitrogen; Total Phosphorus	
<b>11</b> Non-specific Analytes	BOD (5 day); COD; Suspended solids; Methylene blue active substances (MBAS); Dissolved/Total organic carbon; Turbidity; Non-ionic surfactants	
<b>12</b> Metals (Preserved in 0.5% Nitric Acid)	Antimony <sup>**</sup> ; Arsenic; Aluminium; Chromium; Beryllium <sup>**</sup> ; Iron; Manganese; Cadmium; Copper; Lead; Nickel; Zinc; Mercury; Selenium; Molybdenum; Tellurium <sup>**</sup> ; Uranium <sup>**</sup> ; Titanium <sup>**</sup>	
<b>12C</b> Chromium (VI) in Waste Water	Chromium (VI)	
<b>15</b> Settleable Solids	Settleable solids	
<b>29</b> High and Low COD	COD – high; COD – low	
<b>35<sup>##</sup></b> BOD/COD at high concentration	COD; BOD	

Waste Waters and Effluents – Industrial Waste Waters		Round number(s) required
Sample	Target analytes(s)	
<b>17A</b> Major Waste Water Analytes	pH at 20-25°C; Settled chemical oxygen demand (COD); Total COD; Suspended Solids; Conductivity (20°C); Total dissolved solids; Non filterable COD; Salinity	
<b>17B</b> Total Phenol, Cyanide and Sulfate	Total Phenol; Cyanide; Sulfate	
<b>17C</b> Metals (Preserved in 0.5% Nitric Acid)	Aluminium; Antimony; Arsenic; Barium; Boron; Beryllium <sup>**</sup> ; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Manganese; Molybdenum; Mercury; Nickel; Selenium; Silver; Tin; Vanadium; Zinc; Titanium <sup>**</sup>	
<b>17D</b> Ammonia, Phosphate & Nitrogen	Ammonia; Soluble Reactive Phosphorus (PO <sub>4</sub> ); Total Phosphorus; Total Nitrogen	
<b>32<sup>##</sup></b> Sulfide	Total sulfide	
<b>60<sup>##</sup></b> <b>TRIAL</b> M-Certs	Ammonia; COD; Conductivity (20°C); Nitrate; Nitrite; Orthophosphate; pH at 20-25°C; Total arsenic; Total copper; Total mercury; Total cadmium; Total lead; Total nickel; Turbidity	
<b>63<sup>##</sup></b> <b>TRIAL</b> Acetate & Iodide	Acetate; Iodide	

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Waste Waters - Organic		Round number(s) required
Sample	Target analytes(s)	
<b>18A</b> Haloforms & Chlorinated Solvents	Chloroform; Bromodichloromethane; Dibromochloromethane; Bromoform; Trichloroethene; Tetrachloroethene; Carbon Tetrachloride; 1,2 Dichloroethane	
<b>18B</b> Phenols	Phenol; 2-Chlorophenol; 4-Chlorophenol; 3-Bromophenol <sup>**</sup> ; 2,4-Dichlorophenol; 2,4,6-Trichlorophenol; Pentachlorophenol; 2,5-Dimethylphenol <sup>**</sup> ; 3,5-Dimethylphenol <sup>**</sup> ; 2-Methylphenol (o-cresol) <sup>**</sup> ; 3-Methylphenol (m-cresol) <sup>**</sup> ; 4-Methylphenol (p-cresol) <sup>**</sup> ; Total monosubstituted methylphenols <sup>**</sup> ; 4-Chloro-3-methylphenol <sup>**</sup> <b>NEW</b> ; 2,6-Dichlorophenol <sup>**</sup> <b>NEW</b> ; 2,4,5-Trichlorophenol <sup>**</sup> <b>NEW</b> ; 2,4-Dimethylphenol <sup>**</sup> <b>NEW</b> ; Nonylphenol <sup>**</sup>	
<b>18C</b> Benzene, Toluene & Xylenes	Benzene; Toluene; Ethylbenzene; Styrene; o-Xylene; m-Xylene; p-Xylene; Total xylene; m+ p-Xylene	
<b>19A</b> Organochlorine Pesticides	Endrin; Dieldrin; Aldrin; p,p'-DDT; o,p'-DDT; p,p'-DDE; o,p'-DDE <sup>**</sup> ; p,p'-DDD; o,p'-DDD (TDE) <sup>**</sup> ; Alpha Hexachlorocyclohexane (HCH); Beta Hexachlorocyclohexane (HCH); Delta Hexachlorocyclohexane (HCH); Lindane (Gamma HCH); Trifluralin; Alpha endosulphan; Beta endosulphan; Hexachlorobenzene; Heptachlor; Heptachlor epoxide; Pentachlorobenzene; Pendimethalin <sup>**</sup> ; Cis-chlordane <sup>**</sup> ; Trans-chlordane <sup>**</sup> ; Methoxychlor <sup>**</sup> ; Endosulfan Sulfate <sup>**</sup> <b>NEW</b> ; Endrin Aldehyde <sup>**</sup> <b>NEW</b>	
<b>19B</b> Chlorinated Solvents	Hexachlorobutadiene; Carbon Tetrachloride; Tetrachloroethene; 1,2,4-Trichlorobenzene; Trichloroethene; 1,1,1-Trichloroethane; 1,3,5-Trichlorobenzene; 1,2,3-Trichlorobenzene; 1,2-Dichloroethane; Chloroform	
<b>19C</b> Polycyclic Aromatic Hydrocarbons	Fluoranthene; Benzo(b)fluoranthene; Benzo(k)fluoranthene; Benz(a)pyrene; Benzo(ghi)perylene; Indeno(1,2,3-cd)pyrene Acenaphthene; Acenaphthylene; Anthracene; Benz(a)anthracene; Chrysene; Dibenz(ah)anthracene; Fluorene; Naphthalene; Perylene; Phenanthrene; Pyrene	
<b>19D</b> Polychlorinated Biphenyls	PCB (28); PCB (52); PCB (101); PCB (118); PCB (138); PCB (153); PCB (180); PCB (149) <sup>**</sup> <b>NEW</b> ; PCB (170) <sup>**</sup> <b>NEW</b>	
<b>20</b> Acid Herbicides	2,4,5-T <sup>**</sup> ; 2,4,5-TP (Fenoprop) <sup>**</sup> ; 2,4-D; 2,4-DB; Dicamba; 2,3,6-TBA <sup>**</sup> ; Clopyralid <sup>**</sup> ; Fluroxypyr <sup>**</sup> ; Benazolin <sup>**</sup> ; Mecoprop; Dichlorprop; MCPA; MCPB; Triclopyr; Bentazone; Bromoxynil; Dichlobenil <sup>**</sup> ; Ioxynil; Metaldehyde; Metazachlor <sup>**</sup> ; Propachlor <sup>**</sup> ; Propyzamide; Glyphosate; AMPA	
<b>20B</b> Triazines and Urea Herbicides	Isoproturon; Diuron; Linuron; Chlortoluron; Monuron; Methabenzthiazuron <sup>**</sup> ; Diflufenican <sup>**</sup> ; Bromacil <sup>**</sup> ; Simazine; Atrazine; Propazine; Cyanazine <sup>**</sup> ; Trietazine <sup>**</sup> ; Prometryn <sup>**</sup> ; Terbutryn <sup>**</sup> ; Ametryn <sup>**</sup> ; Carbetamide <sup>**</sup> ; Pirimicarb <sup>**</sup> ; Metamitron <sup>**</sup>	
<b>21</b> Organophosphorus Pesticides	Azinphos-methyl; Azinphos-ethyl; Dichlorvos; Fenitrothion; Malathion; Mevinphos; Chlorfenvinphos; Diazinon; Fenthion; Parathion-ethyl; Parathion-methyl; Chlorpyrifos; Cypermethrin; Propetamphos <sup>**</sup> ; Ethion <sup>**</sup> <b>NEW</b>	
<b>23</b> Mineral Oil in Water	Volume of sample provided; Total Hydrocarbons by GC Analysis; Total Hydrocarbons by IR Analysis; Total Hydrocarbons by Gravimetric Analysis	
<b>24</b> Oil & Grease in Water	Volume of sample provided; Total Oil and Grease	
<b>27</b> AOX in Wastewater	AOX	
<b>51## TRIAL</b> Synthetic Pyrethroid Insecticides	Bifenthrin; Cyfluthrin; Cypermethrin; Flumethrin; cis-Permethrin; trans-Permethrin	
<b>64## TRIAL</b> Trihalomethanes & Nutrients in Recreational Water	Trichloromethane; Bromodichloromethane; Dibromodichloromethane; Tribromomethane; Total trihalomethanes (TTHM); pH at 20-25°C; Total organic carbon (TOC); Total Alkalinity; Total Hardness; Total Dissolved Solids	

<sup>\*\*</sup>Please note that these analytes are not currently within the scope of LGC's UKAS accreditation.

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Radiochemistry		Round number(s) required
Sample	Target analytes(s)	
30 Gross Alpha and Gross Beta in Clean Water	Gross Alpha as <sup>239</sup> Plutonium; Gross Alpha as <sup>241</sup> Americium; Gross Alpha as <sup>230</sup> Thorium; Gross Beta as <sup>40</sup> Potassium; Gross Beta as <sup>137</sup> Caesium; Gross Beta as <sup>90</sup> Strontium	
31 Aqueous Tritium in Clean Water	Aqueous Tritium	
42## Plutonium and Uranium	Plutonium-239; Uranium-234; Uranium-235; Uranium-238; Total Uranium	

Marine Waters		Round number(s) required
Sample	Target analytes(s)	
61## TRIAL Saline Water - Nutrients	Total oxidised nitrogen (TON); Nitrate; Total Phosphorus; Potassium; Sulfate; Magnesium; Calcium; Alkalinity; Ammonia; Total Nitrogen; Orthophosphate; pH at 20-25°C; Conductivity (20°C); Silicate	
62## TRIAL Saline Water - Metals	Arsenic; Boron; Cadmium; Copper; Iron; Manganese; Molybdenum; Strontium; Zinc; Barium; Lithium; Sodium; Sulfur; Nickel; Cobalt; Lead; Selenium	

Sewage Sludge – Inorganic		Round number(s) required
Sample	Target analytes(s)	
13 Sewage Sludge Inorganics & Specific Elements	Arsenic; Cadmium; Chromium; Copper; Lead; Mercury; Molybdenum; Nickel; Vanadium; Zinc; Selenium; Total boron; Fluoride; Total nitrogen; Total phosphorus; Total potassium; Cobalt; Iron; Manganese; Total carbon <b>NEW</b> ; Total Sulphur <b>NEW</b>	
16 Compositional Analysis of Sewage Sludge	Total Solids (105±5°C); Loss on ignition (500±5°C); pH at 20-25°C; Calcium; Magnesium; Ammoniacal Nitrogen**	

Soils – Inorganic		Round number(s) required
Sample	Target analytes(s)	
14 Agricultural Soil Inorganics & Specific Elements	Arsenic; Cadmium; Chromium; Copper; Lead; Mercury; Molybdenum; Nickel; Vanadium; Zinc; Selenium; Total boron; Water extractable boron; Fluoride; Total nitrogen; Total phosphorus; Total potassium; Cobalt; Iron; Manganese; Total solids; Loss on ignition; pH at 20-25°C; Extractable phosphorus; Extraction of potassium; Extraction of magnesium; Extraction of sodium; Organic carbon content; Conductivity; Carbonate content	

Ecotoxicology		Round number(s) required
Sample	Target analytes(s)	
50 Ecotoxicology Tests	<i>Daphnia Magna</i> 48hr EC50; <i>Daphnia Magna</i> 24hr EC50 <i>Vibrio Fischeri</i> 30 minute IC50 (ISO 11348-3); Other 30 minute luminescent bacteria IC50 tests; 15 minute luminescent bacteria IC50 tests; Freshwater algae growth inhibition test ( <i>Pseudokirschneriella subcapitata</i> )	

\*\*Please note that these analytes are not currently within the scope of LGC's UKAS accreditation.

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