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**Accreditation Number 825      Australian Laboratory Services Pty Ltd**

**Site Number 818      Brisbane Laboratory**  
**ALS Environmental, ALS Minerals, ALS Tribology**

**Contact Summary**

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Site Scope Last Modified: 06/09/2019

**Scope** (AC = Accreditation Status, AU= Authorisation Status, D = Do Not Publish)

ISO/IEC 17025						
Agribusiness						
Service	Product	Determination	Technique	Procedure	AC	AU
Analysis of physical and nutritional characteristics	Sediments; Soils	Emerson class number	Classical	AS 1289 3.8.1	O	Auth
Analysis of physical and nutritional characteristics	Sediments; Soils	Exchangeable acids	Classical	In-house ED002	O	Auth

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**ISO/IEC 17025**

Calibration

*The uncertainty of measurement is reported as an expanded uncertainty having a level of confidence of 95% unless stated otherwise*

Service	Product	Determination	Technique	Procedure	AC	AU
<b>D</b> Volume and density - Laboratory volumetric glassware and measures	Piston operated volumetric apparatus (POVA)	Volume	Gravimetric method		O	Auth

**Limitation / Range**

from 10 µL to 10 mL

By the method of AS2162.2 with Maximum Permissible Error as specified in ISO 8655-2;

**ISO/IEC 17025**

Environment

Service	Product	Determination	Technique	Procedure	AC	AU
Analysis for chlorinated dioxins and dibenzofurans	Air monitoring cartridges; Fly ash; Polyurethane foam (PUF) plugs; Saline waters; Sediments; Soils; Trade wastes	Polychlorinated dibenzodioxins (polychlorinated dibenzo-p-dioxins); Polychlorinated dibenzofurans	GC-HRMS	In-house EP300	O	Auth

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Analysis for cyanide	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Soils; Steam-raising waters; Trade wastes	Cyanide - Free	Segmented flow analyser (SFA)	In-house QWI EN/EK025SF	○	Auth
Analysis for cyanide	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Leachates; Mine dam water; Mine tailings; Saline waters; Sewage; Solid wastes; Steam-raising waters; Trade wastes; Waste waters	Cyanide - Amenable to chlorination	Classical; Discrete analyser (DA); Flow injection analyser (FIA)	In-house QWI-EN/EK030	○	Auth
Analysis for cyanide	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Soils; Steam-raising waters; Trade wastes	Cyanide - Weak acid dissociable (WAD)	Segmented flow analyser (SFA)	In-house QWI EN/EK028SF	○	Auth
Analysis for cyanide	Ground waters; Industrial waters - Treated; Irrigation and stock	Cyanide - Total	Segmented flow analyser (SFA)	In-house QWI EN/EK026SF	○	Auth

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waters; Mine dam water;  
Mine tailings; Saline  
waters; Sewage; Soils;  
Steam-raising waters;  
Trade wastes

Analysis for cyanide	Soils; Trade wastes	Cyanate	Classical	In-house EN/EK020	○	Auth
Analysis for elements	Sediments; Soils	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Tin; Vanadium; Zinc	ICP-AES	In-house EG005 and EG020	○	Auth
Analysis for elements	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam- raising waters; Trade wastes	Mercury	Atomic absorption spectroscopy (AAS) - Vapour generation	In-house EN/EG035-1	○	Auth
Analysis for elements	Industrial waters - Treated; Irrigation and stock waters; Saline	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Lithium; Manganese;	ICP-MS	In-house EN/EG093 and EN/EG094	○	Auth

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	waters; Steam-raising waters	Molybdenum; Nickel; Selenium; Silver; Strontium; Tellurium; Thallium; Thorium; Tin; Titanium; Uranium; Vanadium; Zinc				
Analysis for elements	Vegetation	Antimony; Arsenic; Copper; Lead; Manganese; Selenium; Tin; Zinc	ICP-MS	USEPA 200.2	○	Auth
Analysis for elements	Vegetation	Antimony; Arsenic; Copper; Lead; Manganese; Selenium; Tin; Zinc	ICP-AES	In-house EG005 and EG020	○	Auth
Analysis for elements	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Tin; Vanadium; Zinc	ICP-MS	USEPA 3005	○	Auth
Analysis for elements	Sediments; Soils	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Tin; Vanadium; Zinc	ICP-MS	USEPA 200.2 and USEPA3051	○	Auth

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Analysis for elements	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Tin; Vanadium; Zinc	ICP-AES	In-house EG005 and EG020	○	Auth
Analysis for herbicides	Saline waters; Sediments; Soils; Waste waters	Atrazine; Simazine	GC-MS	In-house EP068A, EP075	○	Auth
Analysis for herbicides	Ground waters; Saline waters; Sediments; Soils	Trifluralin	GC-MS	In-house EP094	○	Auth
Analysis for herbicides	Saline waters; Sediments; Soils; Waste waters	Diallate; Propyzamide (pronamide, 3,5-dichloro-N-[1,1-dimethylpropynyl]benzamide, KERB)	GC-MS - Purge and trap	In-house EP074 and EP075	○	Auth
Analysis for hydrocarbons	Industrial waters - Treated; Irrigation and stock waters; Steam-raising waters; Surface waters	Bromoacetic acid; Bromodichloroacetic acid; Dibromoacetic acid; Dibromochloroacetic acid; Dichloroacetic acid; Monochloroacetic acid; Tribromoacetic acid; Trichloroacetic acid	GC-MS	In-house QWI-ORG/EP120-1	○	Auth

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Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	Volatile halogenated monocyclic hydrocarbons	GC-MS - Purge and trap	In-house EP074 and EP080 in accordance with QWI-EN/02	○	Auth
Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	Oxygenated hydrocarbons; Sulfonated hydrocarbons	GC-MS - Purge and trap	In-house EP074 and EP075 in accordance with QWI-EN02	○	Auth
Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	1,1,1,2-Tetrachloroethane; 1,1,1-Trichloroethane (1,1,1-TCA, methyl chloroform, chloroethene); 1,1,2,2-Tetrachloroethane (acetylene tetrachloride); 1,1,2-Trichloroethane (1,1,2-TCA, vinyl trichloride); 1,1-Dichloroethane (1,1-DCA); 1,1-Dichloroethene (1,1-DCE, chloride); 1,1-Dichloropropene; 1,2,3-Trichloropropane (allyl trichloride); 1,2-Dibromo-3-chloropropane (DBCP); 1,2-Dibromomethane; 1,2-Dichloroethane (1,2-DCA, ethylene dichloride); 1,2-Dichloropropane (propylene dichloride); 1,3-Dichloropropane; 2,2-Dichloropropane; 4-Bromophenylphenyl ether; 4-Chlorophenylphenyl ether (p-chlorodiphenyl ether); bis-(2-Chloroethoxy) methane; bis-(2-Chloroethyl) ether; bis-(2-Chloroisopropyl) ether; Bromodichloromethane (dichlorobromomethane); Bromoform (tribromomethane); Bromomethane (methylbromide); Carbon tetrachloride (tetrachloromethane); Chloroethane; Chloromethane; cis-1,2-Dichloroethene; cis-1,3-Dichloropropene (cis-1,3-dichloropropylene); cis-1,4-Dichloro-2-butene; Dibromochloromethane (chlorodibromomethane); Dibromomethane; Dichlorodifluoromethane (freon-12); Dichloromethane (DCM, methylene chloride);	GC-MS	In-house EP074 and EP075	○	Auth

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Hexachloro-1,3-butadiene (hexachlorobutadiene, HCBD); Hexachlorocyclopentadiene (HCCPD); Hexachloroethane; Hexachloropropene; Iodomethane (methyl iodine); Pentachloroethane (ethanepentachloride); Tetrachloroethene (perchloroethylene, perchloroethene, tetrachloroethylene); trans-1,2-Dichloroethene (trans-1,2-DCE, trans-1,2-dichloroethylene); trans-1,3-Dichloropropene (trans-1,3-dichloropropylene); trans-1,4-Dichloro-2-butene; Trichloroethene (trichloroethylene, TCE); Trichlorofluoromethane (freon-11, trichloromonofluoromethane); Trichloromethane (chloroform); Vinyl chloride

Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	1,3,5-Trinitrobenzene; 1-Chloronaphthalene; 1-Naphthylamine; 2,4-Dinitrotoluene; 2,6-Dinitrotoluene; 2-Chloronaphthalene; 2-Nitroaniline; 2-Picoline (2-methylpyridine); 3,3'-Dichlorobenzidine; 3-Nitroaniline; 4-Aminobiphenyl; 4-Nitroaniline; 5-Nitro-o-toluidine; Acetophenone; Aniline; Isophorone (isoforone, isoacetophorone); Nitrobenzene (mononitrotoluene, MNT, methylnitrobenzene); N-Nitrosodiethylamine (N-ethyl-N-nitrosoethanamine); N-Nitrosodimethylamine; N-Nitrosodi-n-butylamine; N-Nitrosomethylethylamine; N-Nitrosomorpholine; N-Nitroso-n-propylamine; N-Nitrosopiperidine; N-Nitrosopyrrolidine; p-Dimethylaminoazobenzene (4-dimethylaminoazobenzene, DAB, dimethylaminoazobenzene); Pentachloronitrobenzene (quintozene); Phenacetin	GC-MS - Purge and trap	In-house EP074 and EP075	0	Auth
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Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	Polycyclic aromatic hydrocarbons (PAHs)	GC-MS	In-house EP075 in accordance with QWI-EN/02	○	Auth
Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	1,2,3-Trichlorobenzene; 1,2,4,5-Tetrachlorobenzene; 1,2,4-Trichlorobenzene (1,2,4-TCB); 1,2,4-Trimethylbenzene (1,2,4-TMB, pseudo-cumene); 1,2-Dichlorobenzene (o-dichlorobenzene); 1,3,5-Trichlorobenzene; 1,3,5-Trimethylbenzene (1,3,5-TMB, mesitylene); 1,3-Dichlorobenzene (m-dichlorobenzene); 1,4-Dichlorobenzene (p-dichlorobenzene); 1-Methyl-4-isopropylbenzene (4-isopropyltoluene, p-isopropyltoluene); 2-Chlorotoluene (o-chlorotoluene); 2-Hexanone (MBK); 4-Chlorotoluene (p-chlorotoluene); 4-Methyl-2-pentanone (methyl isobutyl ketone, MIBK); Benzene; Bromobenzene (phenylbromide); Butanone (methyl ethyl ketone, MEK, 2-butanone); Chlorobenzene (benzene chloride, monochlorobenzene); Dibenzofuran; Ethylbenzene; Hexachlorobenzene (HCB); Isopropylbenzene (cumene); Isosafrole; Methyl tert-butyl ether (MTBE); m-Xylene; n-Butylbenzene; n-Propylbenzene; Octachlorostyrene; o-Xylene; Pentachlorobenzene; p-Xylene; Safrole; sec-Butylbenzene; Styrene (ethenyl benzene); Tert-butyl benzene; Toluene; Vinyl acetate	GC-MS - Purge and trap	In-house EP074 and EP080	○	Auth
Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	2-Methylcholanthrene; 2-Methylnaphthalene; 7,12-Dimethylbenz(a)anthracene; Acenaphthene; Acenaphthylene (acenaphthalene); Anthracene; Benz(a)anthracene; Benzo(a)pyrene; Benzo(b,j)fluoranthene; Benzo(g,h,i)perylene;	GC-MS	In-house EP075	○	Auth

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Benzo(k)fluoranthene; Chrysene; Coronene;  
Dibenz(a,h)anthracene; Fluoranthene  
(benzo[j,k]fluorene); Fluorene; Indeno(1,2,3-  
cd)pyrene; n-2-Fluorenylacetamide; Naphthalene;  
Perylene; Phenanthrene; Pyrene

Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	Aliphatic halogenated hydrocarbons; Aromatic halogenated hydrocarbons; Halogenated hydrocarbons; Trihalomethanes	GC-MS	In-house EP074 and EP075 in accordance with QWI-EN/02	○	Auth
Analysis for hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	Benzo(a)pyrene; Total carcinogenic polycyclic aromatic hydrocarbons (PAHs)	Calculation	NEPM Schedule B1	○	Auth
Analysis for industrial chemicals	Aqueous samples (including foams); Landfill leachates; Purified and processed waters; Recycled waters; Saline waters; Sediments; Soils; Surface waters; Waste waters	Total organic fluorine (TOF)	Ion chromatography (IC)	In-house EP040	○	Auth
Analysis for industrial chemicals	Saline waters; Sediments; Soils; Trade wastes	4-Chloroaniline; 4-Nitroquinoline-1-oxide (4- nitroquinoline-n-oxide); Acetone; Acrylonitrile; Benzidine; Carbazole; Carbon disulfide; Chlorobenzilate; Diphenylhydrazine; Ethylmethanesulfonate; Methapyrilene; Methyl methane sulfonate; Trichloronaphthalene	GC-MS - Purge and trap	In-house EP074 and EP075	○	Auth

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Analysis for industrial chemicals	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes	Dibutyltin; Monobutyltin; Tributyltin (TBT)	GC-MS	In-house EP090	O	Auth
Analysis for industrial chemicals	Aqueous samples (including foams); Ground waters; Saline waters; Sediments; Soils; Surface waters	10:2 Fluorotelomer sulfonic acid (10:2 FTS, 1H,1H,2H,2H-perfluorododecane sulfonic acid); 2-(N-Ethyl perfluorooctane sulfanamido)ethanol (N-EtFOSE); 2-(N-Methyl perfluorooctane sulfanamido)ethanol (N-MeFOSE); 4:2 Fluorotelomer sulfonic acid (4:2-FTS, 1H,1H,2H,2H-perfluorohexane sulfonic acid); 6:2 Fluorotelomer sulfonic acid (6:2 FTS, 1H,1H,2H,2H-perfluorooctane sulfonic acid); 8:2 Fluorotelomer sulfonic acid (8:2 FTS, 1H,1H,2H,2H-perfluorodecane sulfonic acid); N-Ethyl perfluorooctane sulfonamide (N-EtFOSA); N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA); N-Methyl perfluorooctane sulfonamide (N-MeFOSA); N-Methyl perfluorooctane sulfonamido acetic acid (N-MeFOSAA); Perfluorobutane sulfonic acid (PFBS); Perfluorobutanoic acid (PFBA); Perfluorodecane sulfonic acid (PFDS); Perfluorodecanoic acid (PFDA); Perfluorododecanoic acid (PFDoA); Perfluoroheptane sulfonic acid (PFHpS); Perfluoroheptanoic acid (PFHpA); Perfluorohexane sulfonic acid (PFHxS); Perfluorohexanoic acid	LC-MS-MS	In-house EP231; EP231foam; EN/02	O	Auth

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(PFHxA); Perfluorononanoic acid (PFNA);  
Perfluorooctane sulfonamide (PFOSA);  
Perfluorooctane sulfonate (PFOS);  
Perfluorooctanoic acid (PFOA); Perfluoropentane  
sulfonic acid (PFPeS); Perfluoropentanoic acid  
(PFPeA); Perfluorotetradecanoic acid (PFTeDA);  
Perfluorotridecanoic acid (PFTrDA);  
Perfluoroundecanoic acid (PFUDA); Total oxidisable  
precursor assay (TOPA)

Analysis for industrial chemicals	Ground waters; Saline waters; Sediments; Soils	Piperonyl butoxide	GC-MS	In-house EP094	○	Auth
Analysis for nutrients	Saline waters; Surface waters; Trade wastes	Nitrogen - Oxidised (NOx)	Discrete analyser (DA)	In-house QWI-EN/EK059G	○	Auth
Analysis for nutrients	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes	Nitrogen - Nitrite	Classical; Flow injection analyser (FIA)	In-house EK057 and EK257	○	Auth

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Analysis for nutrients	Saline waters; Surface waters; Trade wastes	Nitrogen - Nitrate	Discrete analyser (DA)	In-house QWI-EN/EK058G	○	Auth
Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Nitrogen - Ammonia	Discrete analyser (DA)	In-house EK055 and EK255	○	Auth
Analysis for nutrients	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes	Nitrogen - Ammonia	Classical; Flow injection analyser (FIA)	In-house EK055 and EK255	○	Auth
Analysis for nutrients	Industrial waters - Treated; Irrigation and stock waters; Steam-raising waters	Nitrogen - Nitrate; Phosphorus - Phosphate	Ion chromatography (IC)	In-house QWI-EN/ED013	○	Auth
Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Nitrogen - Total Kjeldahl (TKN)	Discrete analyser (DA)	In-house EK061 and EK261	○	Auth

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Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Phosphorus - Total	Discrete analyser (DA)	In-house EK067 and EK267	○	Auth
Analysis for nutrients	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam- raising waters; Trade wastes	Phosphorus - Ortho	Classical; Flow injection analyser (FIA)	In-house EK071 and EK271	○	Auth
Analysis for nutrients	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam- raising waters; Trade wastes	Phosphorus - Total	Classical; Flow injection analyser (FIA)	In-house EK067 and EK267	○	Auth
Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Nitrogen - Oxidised (NOx)	Discrete analyser (DA)	In-house EK059 and EK259	○	Auth

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Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Nitrogen - Nitrate	Discrete analyser (DA)	In-house EK058 and EK258	○	Auth
Analysis for nutrients	Fresh waters; Ground waters; Industrial waters - Treated; Irrigation and stock waters; Marine waters; Saline waters; Sediments; Steam-raising waters; Swimming pool and spa waters	Nitrogen - Total	Flow injection analyser (FIA)	In-house EK262PA	○	Auth
Analysis for nutrients	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam- raising waters; Trade wastes	Nitrogen - Nitrate	Classical; Flow injection analyser (FIA)	In-house EK058 and EK258	○	Auth
Analysis for nutrients	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam- raising waters; Trade	Nitrogen - Total Kjeldahl (TKN)	Classical; Flow injection analyser (FIA)	In-house EK061 and EK261	○	Auth

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wastes

Analysis for nutrients	Industrial waters - Treated; Irrigation and stock waters; Sewage; Steam-raising waters; Trade wastes	Nitrogen - Nitrate; Phosphorus - Phosphate	Ion chromatography (IC)	In-house QWI-EN/ED009	○	Auth
Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Nitrogen - Nitrite	Discrete analyser (DA)	In-house EK057 and EK257	○	Auth
Analysis for nutrients	Saline waters; Soils; Surface waters; Trade wastes	Phosphorus - Ortho	Discrete analyser (DA)	In-house EK071 and EK271	○	Auth
Analysis for organochlorine pesticides	Saline waters; Sediments; Soils; Waste waters	Aldrin; cis-Chlordane ( $\alpha$ -chlordane); Dichlorodiphenyldichloroethane (DDD); Dichlorodiphenyldichloroethylene (DDE); Dichlorodiphenyltrichloroethane (DDT); Dieldrin; Endosulfan 1 ( $\alpha$ -endosulfan); Endosulfan II ( $\beta$ -endosulfan); Endosulfan sulfate; Endrin; Endrin aldehyde; Endrin ketone; Heptachlor; Heptachlor epoxide; Hexachlorobenzene (HCB); Isodrin; Methoxychlor; Organochlorine pesticides; trans-Chlordane ( $\gamma$ -chlordane); $\alpha$ -Hexachlorocyclohexane ( $\alpha$ -HCH); $\beta$ -Hexachlorocyclohexane ( $\beta$ -HCH); $\gamma$ -	GC-MS	In-house EP068A, EP075	○	Auth



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Hexachlorobenzene ( $\gamma$ -benzene hexachloride,  $\gamma$ -BHC,  $\gamma$ -HCB, lindane);  $\gamma$ -Hexachlorocyclohexane ( $\gamma$ -HCH);  $\delta$ -Hexachlorocyclohexane ( $\delta$ -HCH)

Analysis for organophosphate pesticides	Saline waters; Sediments; Soils; Waste waters	Organophosphate pesticides	GC-MS	In-house EP068B, EP075, ORG- 03 and ORG-05 in accordance with QWI-EN/02	○	Auth
Analysis for organophosphate pesticides	Ground waters; Saline waters; Sediments; Soils	2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate (mevinphos); Fenclorpos (ronnel); Fipronil	GC-MS	In-house EP094	○	Auth
Analysis for organophosphate pesticides	Saline waters; Sediments; Soils; Waste waters	Chlorpyrifos ethyl (chlorpyrifos); Chlorpyrifos methyl; Diazinon; Dichlorvos; Diethyl-2-((dimethoxyphosphorothioyl)sulfanyl)butanedioate (maldison, malathion, carbofos, mercaptothion); Dimethoate; Ethion; Fenthion; Pirimiphos ethyl; Prothiofos	GC-MS	In-house EP068B, EP075, ORG-03 and ORG-05	○	Auth
Analysis for petroleum hydrocarbons	Saline waters; Sediments; Soils; Trade wastes	Total petroleum hydrocarbons (TPH) - Variable fractions: C <sub>6</sub> -C <sub>40</sub> ; Total recoverable hydrocarbons (TRH) - Variable fractions: C <sub>6</sub> -C <sub>40</sub>	GC-FID - Purge and trap; GC-MS	In-house QWI-ORG/14, QWI-ORG/16, QWI-ORG/17, QWI-ORG/21, EP071 and EP080	○	Auth
Analysis for petroleum hydrocarbons	Ground waters; Industrial waters - Treated;	Total petroleum hydrocarbons (TPH)	Classical	In-house EP015	○	Auth

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Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes

Analysis for phenols	Saline waters; Sediments; Soils; Trade wastes	2,3,4,6-Tetrachlorophenol; 2,4 6-Trichlorophenol; 2,4,5-Trichlorophenol; 2,4-Dichlorophenol; 2,4-Dimethylphenol; 2,6-Dichlorophenol; 2-Chlorophenol (o-chlorophenol); 2-Methylphenol (2-cresol, o-cresol); 2-Nitrophenol; 3-Methylphenol (3-cresol, m-cresol); 4-Chloro-3-methylphenol; 4-Methylphenol (4-cresol, p-cresol); 4-Nitrophenol; Hexachlorophene; Pentachlorophenol; Phenol	GC-MS	In-house EP075	○	Auth
Analysis for phthalates	Saline waters; Sediments; Soils; Trade wastes	bis-(2-Ethylhexyl) phthalate (diisooctyl phthalate, dioctyl phthalate, di-n-octyl phthalate); Butylbenzylphthalate; Dibutylphthalate (di-n-butyl phthalate, DBP); Diethylphthalate; Dimethylbenzene-1,2-dicarboxylate (dimethylphthalate)	GC-MS	In-house EP075	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade	Chloride	Classical	APHA 4500 Cl <sup>-</sup> B and in-house ED045	○	Auth

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wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Turbidity	Classical	APHA 2130 B and in-house EA045	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Total	Classical	APHA 2540 B and in-house EA030	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Colour - Apparent	Classical	APHA 2120 B and in-house EA040	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Oil and grease	Classical	APHA 5520 B and in-house EP020	○	Auth
Analysis for physical and chemical characteristics	Industrial waters - Treated; Irrigation and stock waters; Saline waters; Sewage; Steam-raising waters; Trade wastes	Silica	Discrete analyser (DA)	In-house QWI-EN/EG052G	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Methyl blue active substances (MBAS); Surfactants - Anionic	Classical	APHA 5540 B, 5540 C in-house EP050	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Acid neutralising capacity (ANC)	Classical	In-house EA013	○	Auth

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Analysis for physical and chemical characteristics	Sediments; Soils	pH	Classical	APHA 4500 H <sup>+</sup> B and in-house EA002	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfide	Calculation	In-house EK085	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Phaeophytin; Pheopigments - Lorenzen	Calculation	In-house method EN/EP008	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfur - Total	Dumas	In-house ED042	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade	Conductivity	Classical	APHA 2510 B and in-house EA010	○	Auth

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wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Alkalinity - Carbonate	Classical	APHA 2320 B and in-house ED030	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Chlorophyll a; Chlorophyll a - Lorenzen; Chlorophyll b; Chlorophyll c	UV-vis spectrophotometry	In-house EP008	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Moisture	Classical	In-house EA055	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Carbon - Total organic (TOC)	Dumas	In-house EP003	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Steam-raising waters; Trade wastes	Carbon - Total	Classical	In-house EP007	○	Auth
Analysis for physical and chemical characteristics	Soils	Particle density	Classical	AS1289.3.5.1 and in-house QWI-EN/EA152	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Surfactants - Non-ionic	UV-vis spectrophotometry	APHA 5540 B, 5540 D in-house EP041	○	Auth
		As CTAS				
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Fluoride	Classical	APHA 4500 F <sup>-</sup> C and in-house EK040	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Dissolved	Classical	APHA 2540 C and in-house EA015	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Organic matter	Classical	AS1289.4.1.1 and in-house EP004	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Colour - True	Classical	APHA 2120 B and in-house EA041	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Thiocyanate	Classical	APHA 4500 CN <sup>-</sup> M and in-house EK027	○	Auth



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wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Sulfate	Classical; ICP-AES	APHA 3120, 4500 SO <sub>4</sub> <sup>2-</sup> and in-house ED040, ED041	○	Auth
Analysis for physical and chemical characteristics	Air - Ambient	Solids - Insoluble	Classical	AS3580.10.1 and in-house EA141	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfide - Acid soluble	Classical	In-house EA027	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Phenols	Discrete analyser (DA)	In-house EP035D and EP035G	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Sulfite	Classical	In-house EK086	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Lime dissolving carbonic acid	Classical	In-house EA145	○	Auth
Analysis for physical and chemical characteristics	Air - Ambient	Solids - Soluble	Classical	AS3580.10.1 and in-house EA139	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Iron - Ferrous	Classical	APHA 3500 Fe <sup>-</sup> B	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Total dissolved (TDS)	Calculation	In-house EA016	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfide - Acid insoluble	Classical	In-house EA028	○	Auth
Analysis for physical and chemical characteristics	Trade wastes	Sugar	Classical	In-house QWI-EN/EA049	○	Auth
Analysis for physical and chemical characteristics	Elutriates; Marine waters	Sample preparation	Elutriate procedures	In-house EN68	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-	Alkalinity - Hydroxide	Classical	APHA 2320 B and in-house ED025	○	Auth

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raising waters; Trade wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Tannins	Classical	In-house EP011	O	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Chemical oxygen demand (COD)	UV-vis spectrophotometry	In-house QWI EN/EP026SP	O	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Acidity	Classical	APHA 2310 B and in-house ED038	O	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Steam-raising waters; Trade wastes	Carbon - Total inorganic (TIC)	Classical	In-house EP006	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfate	Classical; ICP-AES	APHA 3120, APHA 4500 SO <sub>4</sub> <sup>2-</sup> and in-house ED040	○	Auth
Analysis for physical and chemical characteristics	Soils - Acid sulfate	Chromium - Speciation	Distillation; Titration	In-house EA033	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Settleable	Classical	APHA 2540 F and in-house EA034	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Suspended	Classical	APHA 2540 D and in-house EA025	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Chromium - Hexavalent	UV-vis spectrophotometry	In-house EG048	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Chemical oxygen demand (COD)	Classical	APHA 5220 B and in-house EP026	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sample preparation - Non-volatile components; Sample preparation - Semi-volatile components	Toxicity characteristic leaching procedure (TCLP)	AS4439.3 (1997) and in-house EN60	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock	Sulfur - Total oxidised	Classical	In-house ED043	○	Auth

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waters; Mine dam water;  
Mine tailings; Saline  
waters; Sewage; Steam-  
raising waters; Trade  
wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Steam-raising waters; Trade wastes	Carbon - Total organic (TOC)	Classical	In-house EP005	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	pH	Classical	APHA 4500 H <sup>+</sup> B and in-house EA005	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Carbon - Total inorganic (TIC)	Calculation	In-house EP003	○	Auth
Analysis for physical and chemical characteristics	Soils	Particle size	Classical	AS1289 3.6.1, AS1289.3.6.3 and in-house QWI-EN/EA150	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Chlorine - Residual; Chlorine - Total	UV-vis spectrophotometry	In-house EK010	O	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes	Formaldehyde (methanal)	UV-vis spectrophotometry	In-house EP010	O	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Chromium - Hexavalent	Discrete analyser (DA)	In-house EG050G	O	Auth



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Analysis for physical and chemical characteristics	Sediments; Soils	Sample preparation - Volatile components	Toxicity characteristic leaching procedure (TCLP)	AS4439.2 (1997) and AS4439.3 (1997) and in-house EN60	○	Auth
Analysis for physical and chemical characteristics	Industrial waters - Treated; Irrigation and stock waters; Steam-raising waters	Bromate; Chlorate; Chlorite; Fluoride	Ion chromatography (IC)	In-house QWI-EN/ED013	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Alkalinity - Bicarbonate	Classical	APHA 2320 B and in-house ED035	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Ammonium; Cation exchange capacity (CEC)	Classical	In-house ED003	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sample preparation - Non-volatile components; Sample preparation - Semi-volatile components; Sample preparation - Volatile components	Toxicity characteristic leaching procedure (TCLP)	Classical USEPA 1311 and in-house EN33	○	Auth

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Analysis for physical and chemical characteristics	Sediments; Soils	Sulfur - Acid volatile	Classical	In-house EA038	O	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Ammonia; Chloramines - In-situ; Chlorine - In-situ, free; Conductivity - In-situ; Dissolved oxygen (DO) - In-situ; pH - In-situ; Temperature - In-situ	Direct reading instrument; Manual; Titration	In-house EN/67.B	O	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Iron - Ferrous	Discrete analyser (DA)	In-house EG051	O	Auth
Analysis for physical and chemical characteristics	Marine waters; Sediments; Soils	Sample preparation - Non-volatile components; Sample preparation - Semi-volatile components	Elutriate procedures; Leachate procedures 1:5 soil/sediment:water leach	In-house EN034	O	Auth

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Analysis for physical and chemical characteristics	Air - Ambient	Ash	Classical	AS3580.10.1 and in-house EA120	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfur - Chromium reducible	Distillation; Titration	In-house EA026	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Sulfate	Discrete analyser (DA)	In-house ED041G	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Carbon dioxide	Classical	In-house EA165	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Dissolved oxygen (DO)	Classical	In-house EP025	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfides - Acid volatile	ICP-AES; ICP-MS	In-house QWI-EN/EA038SEM	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Fixed; Solids - Volatile	Classical	APHA 2540 E and in-house EA035	○	Auth
Analysis for physical and chemical characteristics	Air - Ambient	Combustible matter	Classical	AS3580.10.1 and in-house EA125	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water;	Acids - Volatile	Classical	APHA 5560 C in-house EP045	○	Auth

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Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Biochemical oxygen demand (BOD)	Classical	APHA 5210 B and in-house EP030	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Sulfur - Total oxidised	Classical	In-house ED043	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Solids - Fixed; Solids - Volatile suspended	Classical	APHA 2540 E and in-house EA036	○	Auth
Analysis for physical and chemical characteristics	Industrial waters - Treated; Irrigation and	Chloride	Discrete analyser (DA)	In-house ED045G	○	Auth

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stock waters; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes

Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Salinity	Calculation	APHA 2510 B and in-house EA016	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Chromium - Hexavalent	Discrete analyser (DA)	In-house EG0048G	○	Auth
Analysis for physical and chemical characteristics	Leachates	Sulfate - Calcium phosphate extractable	Classical	In-house ED040N	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Acid producing potential of acid sulfate	Classical	In-house EA009	○	Auth

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Analysis for physical and chemical characteristics	Air - Ambient	Solids - Total	Classical	AS3580.10.1 and in-house EA142	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Net acid generation (NAG)	Classical	In-house EA011	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Hardness - Total	Classical	APHA 2340 B and in-house EA065	○	Auth
Analysis for physical and chemical characteristics	Sediments; Soils	Suspension peroxide oxidation combined acidity and sulfur (SPOCAS)	Titration	In-house EA029	○	Auth
Analysis for physical and chemical characteristics	Industrial waters - Treated; Irrigation and stock waters; Steam-raising waters	Bromide; Chloride; Sulfate	Ion chromatography (IC)	In-house QWI-EN/ED009 and QWI-EN/ED013	○	Auth

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Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Sulfide	UV-vis spectrophotometry	APHA 4500 S <sup>2-</sup> D and in-house EK085M	○	Auth
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes	Chromium - Hexavalent	UV-vis spectrophotometry	APHA 3500 Cr B	○	Auth
Analysis for physical and chemical characteristics	Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Sewage; Steam-raising waters; Trade wastes	Iodide	Ion chromatography (IC)	In-house QWI-EN/ED009	○	Auth
Analysis for polyhalogenated biphenyls	Saline waters; Sediments; Soils; Trade wastes	Polychlorinated biphenyls (PCBs) - Total	GC-MS	In-house EP066	○	Auth



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Analysis for polyhalogenated biphenyls	Saline waters; Sediments; Soils; Trade wastes	Polychlorinated biphenyl (PCB) congener 105; Polychlorinated biphenyl (PCB) congener 114; Polychlorinated biphenyl (PCB) congener 118; Polychlorinated biphenyl (PCB) congener 123; Polychlorinated biphenyl (PCB) congener 126; Polychlorinated biphenyl (PCB) congener 156; Polychlorinated biphenyl (PCB) congener 157; Polychlorinated biphenyl (PCB) congener 167; Polychlorinated biphenyl (PCB) congener 169; Polychlorinated biphenyl (PCB) congener 189; Polychlorinated biphenyl (PCB) congener 77; Polychlorinated biphenyl (PCB) congener 81	GC-HRMS	In-house EP301	O	Auth
Analysis for pyrethroid and pyrethrum pesticides	Ground waters; Saline waters; Sediments; Soils	Bifenthrin; Bioresmethrin; Cyfluthrin ((R)-cyano-[4-fluoro-3-(phenoxy)phenyl]methyl] (1R,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate); Cypermethrin; Delta-methrin; Esfenvalerate; Fenvalerate; Permethrin; Phenothrin; Tralomethrin; λ-Cyhalothrin	GC-MS	In-house EP094	O	Auth
Analysis for pyrethroid and pyrethrum pesticides	Saline waters; Sediments; Soils; Waste waters	Cypermethrin	GC-MS	In-house EP068A, EP075	O	Auth
Analysis of extractable elements	Sediments; Soils	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Caesium; Calcium; Cerium; Chromium; Cobalt; Copper; Dysprosium; Erbium; Europium; Gadolinium; Gallium; Hafnium; Holmium; Indium; Iron; Lanthanum; Lead; Lithium; Lutetium; Magnesium; Manganese; Mercury; Molybdenum; Neodymium; Nickel; Phosphorus; Potassium; Praseodymium; Rubidium; Samarium;	Flow injection mercury system (FIMS) - Atomic absorption spectroscopy (AAS); ICP-AES; ICP-MS	In-house QWI-EN/71, EG005-SDH, EG035-SDH; EG020-SDH	O	Auth

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Scandium; Selenium; Silicon; Silver; Sodium;  
Strontium; Sulfur; Tellurium; Terbium; Thallium;  
Thorium; Thulium; Tin; Titanium; Tungsten;  
Uranium; Vanadium; Ytterbium; Yttrium; Zinc;  
Zirconium

Analysis of extractable elements	Sediments; Soils	Aluminium; Magnesium	ICP-MS	in house ED089	○	Auth
		Calcium chloride extractable metals				
Analysis of extractable elements	Sediments; Soils	Cadmium; Copper; Lead; Nickel; Zinc	ICP-AES; ICP-MS	In-house QWI-EN/EA038SEM	○	Auth
Sample collection	Bore waters; Recycled waters; Saline waters; Sewage	Not applicable	Automated; Composite; Grab; Manual by hand	In-house QWI-EN/67.B	○	Auth

**ISO/IEC 17025**

Food and Beverage

Service	Product	Determination	Technique	Procedure	AC	AU
Analysis for chlorinated dioxins and dibenzofurans	Waters for potable and domestic purposes	Polychlorinated dibenzodioxins (polychlorinated dibenzo-p-dioxins); Polychlorinated dibenzofurans	GC-HRMS	In-house EP300	○	Auth

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Analysis for elements	Seafood and seafood products	Mercury	Flow injection mercury system (FIMS) - Atomic absorption spectroscopy (AAS)	In-house EG035	○	Auth
Analysis for elements	Seafood and seafood products	Antimony; Arsenic; Cadmium; Copper; Lead; Manganese; Selenium; Tin; Zinc	ICP-AES	In-house EG005 and EG020	○	Auth
Analysis for elements	Waters for potable and domestic purposes	Mercury	Atomic absorption spectroscopy (AAS) - Vapour generation	In-house EN/EG035-1	○	Auth
Analysis for elements	Waters for potable and domestic purposes	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Tin; Vanadium; Zinc	ICP-AES	In-house EG005 and EG020	○	Auth
Analysis for elements	Seafood and seafood products	Antimony; Arsenic; Cadmium; Copper; Lead; Manganese; Selenium; Tin; Zinc	ICP-MS	USEPA 200.2	○	Auth
Analysis for elements	Waters for potable and domestic purposes	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Lithium; Manganese; Molybdenum; Nickel; Selenium; Silver; Strontium; Tellurium; Thallium; Thorium; Tin; Titanium;	ICP-MS	In-house EN/EG093 and EN/EG094	○	Auth

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Uranium; Vanadium; Zinc

Analysis for elements	Waters for potable and domestic purposes	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Potassium; Selenium; Silver; Sodium; Strontium; Sulfur; Thallium; Tin; Vanadium; Zinc	ICP-MS	USEPA 3005	○	Auth
Analysis for herbicides	Potable waters	Diallate; Propyzamide (pronamide, 3,5-dichloro-N-[1,1-dimethylpropynyl]benzamide, KERB)	GC-MS - Purge and trap	In-house EP074 and EP075	○	Auth
Analysis for herbicides	Potable waters	Trifluralin	GC-MS	In-house EP094	○	Auth
Analysis for herbicides	Potable waters	Atrazine; Simazine	GC-MS	In-house EP068A, EP075	○	Auth
Analysis for phenols	Waters for potable and domestic purposes	2,3,4,6-Tetrachlorophenol; 2,4 6-Trichlorophenol; 2,4,5-Trichlorophenol; 2,4-Dichlorophenol; 2,4-Dimethylphenol; 2,6-Dichlorophenol; 2-Chlorophenol (o-chlorophenol); 2-Methylphenol (2-cresol, o-cresol); 2-Nitrophenol; 3-Methylphenol	GC-MS	In-house EP075	○	Auth

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(3-cresol, m-cresol); 4-Chloro-3-methylphenol; 4-Methylphenol (4-cresol, p-cresol); 4-Nitrophenol; Hexachlorophene; Pentachlorophenol; Phenol

Analysis for polyhalogenated biphenyls	Waters for potable and domestic purposes	Polychlorinated biphenyls (PCBs) - Total	GC-MS	In-house EP066	○	Auth
Analysis for polyhalogenated biphenyls	Waters for potable and domestic purposes	Polychlorinated biphenyl (PCB) congener 105; Polychlorinated biphenyl (PCB) congener 114; Polychlorinated biphenyl (PCB) congener 118; Polychlorinated biphenyl (PCB) congener 123; Polychlorinated biphenyl (PCB) congener 126; Polychlorinated biphenyl (PCB) congener 156; Polychlorinated biphenyl (PCB) congener 157; Polychlorinated biphenyl (PCB) congener 167; Polychlorinated biphenyl (PCB) congener 169; Polychlorinated biphenyl (PCB) congener 189; Polychlorinated biphenyl (PCB) congener 77; Polychlorinated biphenyl (PCB) congener 81	GC-HRMS	In-house EP301	○	Auth
Analysis for pyrethroid and pyrethrum pesticides	Potable waters	Cypermethrin	GC-MS	In-house EP068A, EP075	○	Auth
Analysis for pyrethroid and pyrethrum pesticides	Potable waters	Bifenthrin; Bioresmethrin; Cyfluthrin ((R)-cyano-[4-fluoro-3-(phenoxy)phenyl]methyl) (1R,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate); Cypermethrin; Delta-methrin; Esfenvalerate; Fenvalerate; Permethrin; Phenothrin;	GC-MS	In-house EP094	○	Auth

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Tralomethrin; λ-Cyhalothrin

Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	2-Methylcholanthrene; 2-Methylnaphthalene; 7,12-Dimethylbenz(a)anthracene; Acenaphthene; Acenaphthylene (acenaphthalene); Anthracene; Benz(a)anthracene; Benzo(a)pyrene; Benzo(b,j)fluoranthene; Benzo(g,h,i)perylene; Benzo(k)fluoranthene; Chrysene; Coronene; Dibenz(a,h)anthracene; Fluoranthene (benzo[j,k]fluorene); Fluorene; Indeno(1,2,3-cd)pyrene; n-2-Fluorenylacetamide; Naphthalene; Perylene; Phenanthrene; Pyrene	GC-MS	In-house EP075	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Bromoacetic acid; Bromodichloroacetic acid; Dibromoacetic acid; Dibromochloroacetic acid; Dichloroacetic acid; Monochloroacetic acid; Tribromoacetic acid; Trichloroacetic acid	GC-MS	In-house QWI-ORG/EP120-1	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Volatile halogenated monocyclic hydrocarbons	GC-MS - Purge and trap	In-house EP074 and EP080 in accordance with QWI-EN/02	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Polycyclic aromatic hydrocarbons (PAHs)	GC-MS	In-house EP075 in accordance with QWI-EN/02	○	Auth

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Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Cyanide - Total	Segmented flow analyser (SFA)	In-house QWI EN/EK026SF	O Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	10:2 Fluorotelomer sulfonic acid (10:2 FTS, 1H,1H,2H,2H-perfluorododecane sulfonic acid); 2-(N-Ethyl perfluorooctane sulfanamido)ethanol (N-EtFOSE); 2-(N-Methyl perfluorooctane sulfanamido)ethanol (N-MeFOSE); 4:2 Fluorotelomer sulfonic acid (4:2-FTS, 1H,1H,2H,2H-perfluorohexane sulfonic acid); 6:2 Fluorotelomer sulfonic acid (6:2 FTS, 1H,1H,2H,2H-perfluorooctane sulfonic acid); 8:2 Fluorotelomer sulfonic acid (8:2 FTS, 1H,1H,2H,2H-perfluorodecane sulfonic acid); N-Ethyl perfluorooctane sulfonamide (N-EtFOSA); N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA); N-Methyl perfluorooctane sulfonamide (N-MeFOSA); N-Methyl perfluorooctane sulfonamido acetic acid (N-MeFOSAA); Perfluorobutane sulfonic acid (PFBS); Perfluorobutanoic acid (PFBA); Perfluorodecane sulfonic acid (PFDS); Perfluorodecanoic acid (PFDA); Perfluorododecanoic acid (PFDoA); Perfluoroheptane sulfonic acid (PFHpS); Perfluoroheptanoic acid (PFHpA); Perfluorohexane sulfonic acid (PFHxS); Perfluorohexanoic acid (PFHxA); Perfluorononanoic acid (PFNA); Perfluorooctane sulfonamide (PFOSA); Perfluorooctane sulfonate (PFOS); Perfluorooctanoic acid (PFOA); Perfluoropentane sulfonic acid (PFPeS); Perfluoropentanoic acid (PFPeA); Perfluorotetradecanoic acid (PFTeDA); Perfluorotridecanoic acid (PFTrDA); Perfluoroundecanoic acid (PFUDA); Total oxidisable	LC-MS-MS	In-house EP231	O Auth

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precursor assay (TOPA)

Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	4-Chloroaniline; 4-Nitroquinoline-1-oxide (4-nitroquinoline-n-oxide); Acetone; Acrylonitrile; Benzidine; Carbazole; Carbon disulfide; Chlorobenzilate; Diphenylhydrazine; Ethylmethanesulfonate; Methapyrilene; Methyl methane sulfonate; Trichloronaphthalene	GC-MS - Purge and trap	In-house EP074 and EP075	O	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	1,3,5-Trinitrobenzene; 1-Chloronaphthalene; 1-Naphthylamine; 2,4-Dinitrotoluene; 2,6-Dinitrotoluene; 2-Chloronaphthalene; 2-Nitroaniline; 2-Picoline (2-methylpyridine); 3,3'-Dichlorobenzidine; 3-Nitroaniline; 4-Aminobiphenyl; 4-Nitroaniline; 5-Nitro-o-toluidine; Acetophenone; Aniline; Isophorone (isoforone, isoacetophorone); Nitrobenzene (mononitrotoluene, MNT, methylnitrobenzene); N-Nitrosodiethylamine (N-ethyl-N-nitrosoethanamine); N-Nitrosodimethylamine; N-Nitrosodi-n-butylamine; N-Nitrosomethylethylamine; N-Nitrosomorpholine; N-Nitroso-n-propylamine; N-Nitrosopiperidine; N-Nitrosopyrrolidine; p-Dimethylaminoazobenzene (4-dimethylaminoazobenzene, DAB, dimethylaminoazobenzene); Pentachloronitrobenzene (quintozene); Phenacetin	GC-MS - Purge and trap	In-house EP074 and EP075	O	Auth



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Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Aliphatic halogenated hydrocarbons; Aromatic halogenated hydrocarbons; Halogenated hydrocarbons; Trihalomethanes	GC-MS	In-house EP074 and EP075 in accordance with QWI-EN/02	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Benzo(a)pyrene; Total carcinogenic polycyclic aromatic hydrocarbons (PAHs)	Calculation	NEPM Schedule B1	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Total petroleum hydrocarbons (TPH)	Classical	In-house EP015	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Total oxidisable precursor assay (TOPA)	LC-MS-MS	In-house QWI-ORG/70	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Methyl tert-butyl ether (MTBE); Naphthalene	GC-MS - Headspace	In-house QWI-ORG/EP125	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	1,1,1,2-Tetrachloroethane; 1,1,1-Trichloroethane (1,1,1-TCA, methyl chloroform, chloroethene); 1,1,2,2-Tetrachloroethane (acetylene tetrachloride); 1,1,2-Trichloroethane (1,1,2-TCA, vinyl trichloride); 1,1-Dichloroethane (1,1-DCA); 1,1-Dichloroethene (1,1-DCE, chloride); 1,1-Dichloropropene; 1,2,3-	GC-MS	In-house EP074 and EP075	○	Auth

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Trichloropropane (allyl trichloride); 1,2-Dibromo-3-chloropropane (DBCP); 1,2-Dibromomethane; 1,2-Dichloroethane (1,2-DCA, ethylene dichloride); 1,2-Dichloropropane (propylene dichloride); 1,3-Dichloropropane; 2,2-Dichloropropane; 4-Bromophenylphenyl ether; 4-Chlorophenylphenyl ether (p-chlorodiphenyl ether); bis-(2-Chloroethoxy) methane; bis-(2-Chloroethyl) ether; bis-(2-Chloroisopropyl) ether; Bromodichloromethane (dichlorobromomethane); Bromoform (tribromomethane); Bromomethane (methylbromide); Carbon tetrachloride (tetrachloromethane); Chloroethane; Chloromethane; cis-1,2-Dichloroethene; cis-1,3-Dichloropropene (cis-1,3-dichloropropylene); cis-1,4-Dichloro-2-butene; Dibromochloromethane (chlorodibromomethane); Dibromomethane; Dichlorodifluoromethane (freon-12); Dichloromethane (DCM, methylene chloride); Hexachloro-1,3-butadiene (hexachlorobutadiene, HCBd); Hexachlorocyclopentadiene (HCCPD); Hexachloroethane; Hexachloropropene; Iodomethane (methyl iodine); Pentachloroethane (ethanepentachloride); Tetrachloroethene (perchloroethylene, perchloroethene, tetrachloroethylene); trans-1,2-Dichloroethene (trans-1,2-DCE, trans-1,2-dichloroethylene); trans-1,3-Dichloropropene (trans-1,3-dichloropropylene); trans-1,4-Dichloro-2-butene; Trichloroethene (trichloroethylene, TCE); Trichlorofluoromethane (freon-11, trichloromonofluoromethane); Trichloromethane (chloroform); Vinyl chloride

Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)

Waters for potable and domestic purposes

1,2,3-Trichlorobenzene; 1,2,4-Trichlorobenzene (1,2,4-TCB); 1,2,4-Trimethylbenzene (1,2,4-TMB, pseudo-cumene); 1,2-Dichlorobenzene (o-

GC-MS - Headspace

In-house QWI-ORG/EP125

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dichlorobenzene); 1,3,5-Trimethylbenzene (1,3,5-TMB, mesitylene); 1,3-Dichlorobenzene (m-dichlorobenzene); 1,4-Dichlorobenzene (p-dichlorobenzene); 2-Chlorotoluene (o-chlorotoluene); 4-Chlorotoluene (p-chlorotoluene); Benzene; Benzylchloride (chloromethylbenzene); Bromobenzene (phenylbromide); Chlorobenzene (benzene chloride, monochlorobenzene); Ethylbenzene; m-Xylene; o-Xylene; p-Xylene; Styrene (ethenyl benzene)

Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Total petroleum hydrocarbons (TPH) - Variable fractions: C <sub>6</sub> -C <sub>40</sub> ; Total recoverable hydrocarbons (TRH) - Variable fractions: C <sub>6</sub> -C <sub>40</sub>	GC-FID - Purge and trap; GC-MS	In-house QWI-ORG/14, QWI-ORG/16, QWI-ORG/17, QWI-ORG/21, EP071 and EP080	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Cyanate	Classical	In-house EN/EK020	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Cyanide - Free	Segmented flow analyser (SFA)	In-house QWI EN/EK025SF	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	1,2,3-Trichlorobenzene; 1,2,4,5-Tetrachlorobenzene; 1,2,4-Trichlorobenzene (1,2,4-TCB); 1,2,4-Trimethylbenzene (1,2,4-TMB, pseudo-cumene); 1,2-Dichlorobenzene (o-dichlorobenzene); 1,3,5-Trichlorobenzene; 1,3,5-Trimethylbenzene (1,3,5-TMB, mesitylene); 1,3-	GC-MS - Purge and trap	In-house EP074 and EP080	○	Auth

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Dichlorobenzene (m-dichlorobenzene); 1,4-Dichlorobenzene (p-dichlorobenzene); 1-Methyl-4-isopropylbenzene (4-isopropyltoluene, p-isopropyltoluene); 2-Chlorotoluene (o-chlorotoluene); 2-Hexanone (MBK); 4-Chlorotoluene (p-chlorotoluene); 4-Methyl-2-pentanone (methyl isobutyl ketone, MIBK); Benzene; Bromobenzene (phenylbromide); Butanone (methyl ethyl ketone, MEK, 2-butanone); Chlorobenzene (benzene chloride, monochlorobenzene); Dibenzofuran; Ethylbenzene; Hexachlorobenzene (HCB); Isopropylbenzene (cumene); Isosafrole; Methyl tert-butyl ether (MTBE); m-Xylene; n-Butylbenzene; n-Propylbenzene; Octachlorostyrene; o-Xylene; Pentachlorobenzene; p-Xylene; Safrole; sec-Butylbenzene; Styrene (ethenyl benzene); Tert-butyl benzene; Toluene; Vinyl acetate

Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	bis-(2-Ethylhexyl) phthalate (diisooctyl phthalate, dioctyl phthalate, di-n-octyl phthalate); Butylbenzylphthalate; Dibutylphthalate (di-n-butyl phthalate, DBP); Diethylphthalate; Dimethylbenzene-1,2-dicarboxylate (dimethylphthalate)	GC-MS	In-house EP075	O	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Cyanide - Amenable to chlorination	Classical; Discrete analyser (DA); Flow injection analyser (FIA)	In-house QWI-EN/EK030	O	Auth

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Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Volatile halogenated monocyclic hydrocarbons	GC-MS - Headspace	In-house QWI-ORG/125 in accordance with QWI-EN/02	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Piperonyl butoxide	GC-MS	In-house EP094	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Cyanide - Weak acid dissociable (WAD)	Segmented flow analyser (SFA)	In-house QWI EN/EK028SF	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Dibutyltin; Monobutyltin; Tributyltin (TBT)	GC-MS	In-house EP090	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	Oxygenated hydrocarbons; Sulfonated hydrocarbons	GC-MS - Purge and trap	In-house EP074 and EP075 in accordance with QWI-EN02	○	Auth
Analysis for residues and contaminants (hydrocarbons, phthalates, industrial chemicals)	Waters for potable and domestic purposes	2-Methylisoborneol (MIB); Geosmin	GC-MS - Headspace	In-house QWI-ORG/EP115	○	Auth

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Analysis of pesticide residues and contaminants	Potable waters	Organophosphate pesticides	GC-MS	In-house EP068B, EP075, ORG- 03 and ORG-05 in accordance with QWI-EN/02	○	Auth
Analysis of pesticide residues and contaminants	Potable waters	2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate (mevinphos); Fenchlorphos (ronnel); Fipronil	GC-MS	In-house EP094	○	Auth
Analysis of pesticide residues and contaminants	Potable waters	Chlorpyrifos ethyl (chlorpyrifos); Chlorpyrifos methyl; Diazinon; Dichlorvos; Diethyl-2-([dimethoxyphosphorothioyl]sulfanyl)butanedioate (maldison, malathion, carbofos, mercaptothion); Dimethoate; Ethion; Fenthion; Pirimiphos ethyl; Prothiofos	GC-MS	In-house EP068B, EP075, ORG-03 and ORG-05	○	Auth
Analysis of pesticide residues and contaminants	Potable waters	Aldrin; cis-Chlordane ( $\alpha$ -chlordane); Dichlorodiphenyldichloroethane (DDD); Dichlorodiphenyldichloroethylene (DDE); Dichlorodiphenyltrichloroethane (DDT); Dieldrin; Endosulfan 1 ( $\alpha$ -endosulfan); Endosulfan II ( $\beta$ -endosulfan); Endosulfan sulfate; Endrin; Endrin aldehyde; Endrin ketone; Heptachlor; Heptachlor epoxide; Hexachlorobenzene (HCB); Isodrin; Methoxychlor; Organochlorine pesticides; trans-Chlordane ( $\gamma$ -chlordane); $\alpha$ -Hexachlorocyclohexane ( $\alpha$ -HCH); $\beta$ -Hexachlorocyclohexane ( $\beta$ -HCH); $\gamma$ -Hexachlorobenzene ( $\gamma$ -benzene hexachloride, $\gamma$ -BHC, $\gamma$ -HCB, lindane); $\gamma$ -Hexachlorocyclohexane ( $\gamma$ -HCH); $\delta$ -Hexachlorocyclohexane ( $\delta$ -HCH)	GC-MS	In-house EP068A, EP075	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Formaldehyde (methanal)	UV-vis spectrophotometry	In-house EP010	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Phosphorus - Ortho	Discrete analyser (DA)	In-house EK071 and EK271	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrate	Discrete analyser (DA)	In-house QWI-EN/EK058G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Total	Classical	APHA 2540 B and in-house EA030	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Tannins	Classical	In-house EP011	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Carbon - Total	Classical	In-house EP007	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Alkalinity - Carbonate	Classical	APHA 2320 B and in-house ED030	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrate; Phosphorus - Phosphate	Ion chromatography (IC)	In-house QWI-EN/ED009	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chromium - Hexavalent	Discrete analyser (DA)	In-house EG050G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chlorine - Residual; Chlorine - Total	UV-vis spectrophotometry	In-house EK010	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Phosphorus - Total	Discrete analyser (DA)	In-house EK067 and EK267	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Carbon - Total organic (TOC)	Classical	In-house EP005	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Iron - Ferrous	Classical	APHA 3500 Fe <sup>-</sup> B	○	Auth



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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Phenols	Discrete analyser (DA)	In-house EP035D and EP035G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrate; Phosphorus - Phosphate	Ion chromatography (IC)	In-house QWI-EN/ED013	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Total	Flow injection analyser (FIA)	In-house EK262PA	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chlorophyll a; Chlorophyll a - Lorenzen; Chlorophyll b; Chlorophyll c	UV-vis spectrophotometry	In-house EP008	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Methyl blue active substances (MBAS); Surfactants - Anionic	Classical	APHA 5540 B, 5540 C in-house EP050	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Sulfite	Classical	In-house EK086	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrate	Discrete analyser (DA)	In-house EK058 and EK258	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Total Kjeldahl (TKN)	Discrete analyser (DA)	In-house EK061 and EK261	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Iron - Ferrous	Discrete analyser (DA)	In-house EG051	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Fixed; Solids - Volatile suspended	Classical	APHA 2540 E and in-house EA036	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Carbon - Total inorganic (TIC)	Classical	In-house EP006	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Suspended	Classical	APHA 2540 D and in-house EA025	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrate	Classical; Flow injection analyser (FIA)	In-house EK058 and EK258	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Sugar	Classical	In-house QWI-EN/EA049	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Conductivity	Classical	APHA 2510 B and in-house EA010	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Dissolved oxygen (DO)	Classical	In-house EP025	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Fluoride	Classical	APHA 4500 F <sup>-</sup> C and in-house EK040	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Salinity	Calculation	APHA 2510 B and in-house EA016	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Ammonia; Chloramines - In-situ; Chlorine - In-situ, free; Conductivity - In-situ; Dissolved oxygen (DO) - In-situ; pH - In-situ; Temperature - In-situ	Classical; Direct reading instrument; Manual; Titration	In-house EN/67.B	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Oxidised (NOx)	Discrete analyser (DA)	In-house EK059 and EK259	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Ammonia	Discrete analyser (DA)	In-house EK055 and EK255	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chloride	Classical	APHA 4500 Cl <sup>-</sup> B and in-house ED045	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Alkalinity - Bicarbonate	Classical	APHA 2320 B and in-house ED035	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Alkalinity - Hydroxide	Classical	APHA 2320 B and in-house ED025	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Colour - True	Classical	APHA 2120 B and in-house EA041	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrite	Discrete analyser (DA)	In-house EK057 and EK257	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Thiocyanate	Classical	APHA 4500 CN <sup>-</sup> M and in-house EK027	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Acids - Volatile	Classical	APHA 5560 C in-house EP045	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Fixed; Solids - Volatile	Classical	APHA 2540 E and in-house EA035	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Sulfur - Total oxidised	Classical	In-house ED043	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Colour - Apparent	Classical	APHA 2120 B and in-house EA040	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Phaeophytin; Pheopigments - Lorenzen	Calculation	In-house method EN/EP008	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Acidity	Classical	APHA 2310 B and in-house ED038	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Iodide	Ion chromatography (IC)	In-house QWI-EN/ED009	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chromium - Hexavalent	UV-vis spectrophotometry	APHA 3500 Cr B	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	pH	Classical	APHA 4500 H <sup>+</sup> B and in-house EA005	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Nitrite	Classical; Flow injection analyser (FIA)	In-house EK057 and EK257	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Hardness - Total	Classical	APHA 2340 B and in-house EA065	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Lime dissolving carbonic acid	Classical	In-house EA145	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Phosphorus - Total	Classical; Flow injection analyser (FIA)	In-house EK067 and EK267	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Silica	Discrete analyser (DA)	In-house QWI-EN/EG052G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Sulfate	Classical; ICP-AES	APHA 3120, 4500 SO <sub>4</sub> <sup>2-</sup> span <sup>n</sup> E and in-house ED040, ED041	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Turbidity	Classical	APHA 2130 B and in-house EA045	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Bromate; Chlorate; Chlorite; Fluoride	Ion chromatography (IC)	In-house QWI-EN/ED013	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Sulfide	UV-vis spectrophotometry	APHA 4500 S <sup>2-</sup> D and in-house EK085M	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chemical oxygen demand (COD)	Classical	APHA 5220 B and in-house EP026	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Bromide; Chloride; Sulfate	Ion chromatography (IC)	In-house QWI-EN/ED009 and QWI-EN/ED013	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Dissolved	Classical	APHA 2540 C and in-house EA015	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Total Kjeldahl (TKN)	Classical; Flow injection analyser (FIA)	In-house EK061 and EK261	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Surfactants - Non-ionic	UV-vis spectrophotometry	APHA 5540 B, 5540 D in-house EP041	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Total dissolved (TDS)	Calculation	In-house EA016	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Solids - Settleable	Classical	APHA 2540 F and in-house EA034	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Oxidised (NOx)	Discrete analyser (DA)	In-house QWI-EN/EK059G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Nitrogen - Ammonia	Classical; Flow injection analyser (FIA)	In-house EK055 and EK255	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Sulfate	Discrete analyser (DA)	In-house ED041G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Carbon dioxide	Classical	In-house EA165	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Oil and grease	Classical	APHA 5520 B and in-house EP020	○	Auth

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Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chemical oxygen demand (COD)	UV-vis spectrophotometry	In-house QWI EN/EP026SP	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chloride	Discrete analyser (DA)	In-house ED045G	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Biochemical oxygen demand (BOD)	Classical	APHA 5210 B and in-house EP030	○	Auth
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Phosphorus - Ortho	Classical; Flow injection analyser (FIA)	In-house EK071 and EK271	○	Auth
Sample collection	Waters for potable and domestic purposes	Not applicable	Automated; Composite; Grab; Manual by hand	In-house QWI-EN/67.B	○	Auth

**ISO/IEC 17025**

Materials

Service	Product	Determination	Technique	Procedure	AC	AU
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Analysis of agricultural products and treatment materials	Soils	Ammonium chloride - Exchangeable cations; Calcium; Effective cation exchange capacity (ECEC); Magnesium; Potassium; Sodium No pre-treatment for removal of soluble salts	ICP-AES	In-house ED007	○	Auth
Analysis of agricultural products and treatment materials	Soils	Ammonium chloride - Exchangeable cations; Calcium; Effective cation exchange capacity (ECEC); Exchangeable sodium percentage (ESP); Magnesium; Potassium; Sodium After pre-treatment for removal of soluble salts	ICP-AES	In-house ED008	○	Auth
Analysis of biofuels, hydrocarbon fuels and related fuel products	Natural gas	Hydrogen sulfide	GC-SCD	In-house QWI -ORG/EP 251	○	Auth
Analysis of biofuels, hydrocarbon fuels and related fuel products	Natural gas	1-Butylene (1-butene); Butane (n-butane); Carbon dioxide; Ethane; Ethene (ethylene); Helium; Heptane (n-heptane); Hexane (n-hexane); Hydrogen; Hydrogen sulfide; Isobutane; Isopentane; Methane; Nitrogen; Octanes+; Oxygen; Pentane (n-pentane); Propane; Propene (propylene)	GC-FID; GC-TCD	In-house QWI-ORG/EP 250	○	Auth
Analysis of cements and cementitious materials - Composition	Cement products  Aggregates	Sugar	Classical (dry ingredients)		○	Auth

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Analysis of cements and cementitious materials - Composition	Cement products	Chloride		Titration	In-house CI-VOL66	○	Auth
Analysis of lubricants, oils and related products	Greases; Lubricating oils	Acid number of petroleum products		Potentiometric titration	ASTM D664 and in-house QWI-WCPE 975-C/O	○	Auth
Analysis of lubricants, oils and related products	Greases; Lubricating oils	Base number of petroleum products		Potentiometric perchloric acid titration	ASTM D2896	○	Auth
Analysis of ores and minerals	Geological samples; Metallurgical samples	Carbon - Inorganic		Calculation	In-house C-CAL15	○	Auth
Analysis of ores and minerals	Geological samples; Metallurgical samples	Sulfur - Sulfide		Calculation	In-house S-CAL07	○	Auth
Analysis of ores and minerals	Silica sands	Aluminium oxide; Calcium oxide; Chromium oxide; Iron oxide; Magnesium oxide; Silicon dioxide; Titanium dioxide		ICP-AES; ICP-MS	In-house ME-PKG85	○	Auth
Analysis of ores and minerals	Aluminium ores; Iron ores; Nickel ores;	Loss on ignition		Classical	In-house ME-GRA05	○	Auth

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Phosphate rock; Silicate materials

Analysis of ores and minerals	Geochemical samples for trace elements; Geological samples; Metallurgical samples	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Caesium; Calcium; Cerium; Chromium; Cobalt; Copper; Gallium; Germanium; Hafnium; Indium; Iron; Lanthanum; Lead; Lithium; Magnesium; Manganese; Mercury; Molybdenum; Nickel; Niobium; Phosphorus; Potassium; Rhenium; Rubidium; Scandium; Selenium; Silver; Sodium; Strontium; Sulfur; Tantalum; Tellurium; Thallium; Thorium; Tin; Titanium; Tungsten; Uranium; Vanadium; Yttrium; Zinc; Zirconium	ICP-MS	In-house ME-MS41, ME-MS42, ME-MS61 and ME-MS62	○	Auth
Analysis of ores and minerals	Dolomite; Limestone; Mineral sands; Silica sands	Loss on ignition	Classical	In-house OA-GRA05 and ME-GRA05	○	Auth
Analysis of ores and minerals	Gold ores	Gold	Atomic absorption spectroscopy (AAS); ICP-MS	In-house Au-OG43, Au-OG44, Au-ST43, Au-ST44, Au-TL43 and Au-TL44	○	Auth
Analysis of ores and minerals	Nickel ores	Aluminium; Calcium; Chromium; Cobalt; Copper; Iron; Lead; Magnesium; Manganese; Nickel; Phosphorus; Potassium; Silicon; Sodium; Titanium; Zinc	X-ray fluorescence (XRF)	In-house ME-XRF12n	○	Auth

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Analysis of ores and minerals	Aluminium ores	Aluminium oxide; Barium oxide; Calcium oxide; Chromium oxide; Iron oxide; Magnesium oxide; Manganese oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide; Sodium oxide; Strontium oxide; Sulfur trioxide (sulfuric anhydride); Titanium dioxide; Vanadium oxide; Zinc oxide; Zirconium dioxide	X-ray fluorescence (XRF)	In-house ME-XRF13n	○	Auth
Analysis of ores and minerals	Silicate materials	Aluminium oxide; Barium oxide; Calcium oxide; Chromium oxide; Iron oxide; Magnesium oxide; Manganese oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide; Sodium oxide; Sulfur trioxide (sulfuric anhydride); Titanium dioxide	X-ray fluorescence (XRF)	In-house ME-XRF26	○	Auth
Analysis of ores and minerals	Tin ores	Tin	X-ray fluorescence (XRF)	In-house ME-XRF05	○	Auth
Analysis of ores and minerals	Geological samples; Metallurgical samples	Sulfate - Acid soluble	Dumas  to add Dumas combustion	In-house S-SCP16 and S-IR08	○	Auth
Analysis of ores and minerals	Chromium ores	Chromium	ICP-AES	In-house ME-ICP81x	○	Auth

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Analysis of ores and minerals	Mineral sands	Aluminium oxide; Calcium oxide; Chromium oxide; Hafnium oxide; Iron oxide; Magnesium oxide; Manganese oxide; Niobium oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide; Titanium dioxide; Vanadium oxide; Zirconium dioxide	X-ray fluorescence (XRF)	In-house ME-XRF31z, ME-XRF31r, ME-XRF31i and ME-XRF31h	○	Auth
Analysis of ores and minerals	Aluminium ores; Chromium ores; Copper ores; Dolomite; Geochemical samples for trace elements; Geological samples; Gold ores; Iron ores; Lead ores; Limestone; Metallurgical samples; Mineral sands; Nickel ores; Phosphate rock; Silica sands; Silicate materials; Silver ores; Tin ores; Uranium ores; Zinc ores	Particle size distribution  Sizings down to 45 microns	Sieve analysis  Sieve shaker	In-house OA-SIZE D	○	Auth
Analysis of ores and minerals	Geological samples; Metallurgical samples	Carbon - Total organic (TOC)	Dumas	In-house C-IR17 and C-IR07	○	Auth
Analysis of ores and minerals	Geochemical samples for trace elements	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Caesium; Calcium; Cerium; Chromium; Cobalt; Copper; Gallium; Germanium; Hafnium; Indium; Iron; Lanthanum; Lead; Lithium; Magnesium; Manganese; Mercury;	ICP-AES	In-house ME-ICP41 and ME-ICP61	○	Auth

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Molybdenum; Nickel; Niobium; Phosphorus;  
Potassium; Rhenium; Rubidium; Scandium;  
Selenium; Silver; Sodium; Strontium; Sulfur;  
Tantalum; Tellurium; Thallium; Thorium; Tin;  
Titanium; Tungsten; Uranium; Vanadium; Yttrium;  
Zinc; Zirconium

Analysis of ores and minerals	Geological samples; Metallurgical samples	Aluminium; Antimony; Arsenic; Barium; Beryllium; Bismuth; Boron; Cadmium; Caesium; Calcium; Cerium; Chromium; Cobalt; Copper; Gallium; Germanium; Hafnium; Indium; Iron; Lanthanum; Lead; Lithium; Magnesium; Manganese; Mercury; Molybdenum; Nickel; Niobium; Phosphorus; Potassium; Rhenium; Rubidium; Scandium; Selenium; Silver; Sodium; Strontium; Sulfur; Tantalum; Tellurium; Thallium; Thorium; Tin; Titanium; Tungsten; Uranium; Vanadium; Yttrium; Zinc; Zirconium	ICP-AES	In-house ME-ICP41, ME-ICP61, ME-OG46 and ME-OG62	○	Auth
Analysis of ores and minerals	Dolomite; Limestone	Aluminium oxide; Barium oxide; Calcium oxide; Chromium oxide; Cobalt; Copper; Iron - Total; Iron oxide; Magnesium oxide; Manganese oxide; Nickel; Phosphorus oxide; Potassium oxide; Silicon dioxide; Sodium oxide; Strontium oxide; Titanium dioxide; Vanadium oxide; Zirconium oxide	ICP-AES	In-house ME-ICP86	○	Auth
Analysis of ores and minerals	Copper ores; Metallurgical samples	Copper	ICP-AES	In-house ME-OG46 and ME-OG62	○	Auth



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Analysis of ores and minerals	Iron ores	Aluminium; Arsenic; Calcium; Copper; Iron; Magnesium; Manganese; Phosphorus; Potassium; Silicon; Strontium; Titanium; Vanadium; Zinc	X-ray fluorescence (XRF)	In-house ME-XRF21n	○	Auth
Analysis of ores and minerals	Mineral sands	Arsenic oxide; Chromium oxide; Lead oxide; Thorium dioxide; Tin dioxide; Uranium oxide; Yttrium oxide; Zinc	ICP-MS	In-house ME-MS88	○	Auth
Analysis of ores and minerals	Metallurgical samples; Zinc ores	Zinc	ICP-AES	In-house ME-OG46 and ME-OG62	○	Auth
Analysis of ores and minerals	Copper ores; Metallurgical samples	Copper	Classical	In-house Cu-VOL61	○	Auth
Analysis of ores and minerals	Dolomite; Iron ores; Limestone; Silica sands	Moisture	Classical	In-house OA-GRA10	○	Auth
Analysis of ores and minerals	Mineral sands	Iron oxide	Classical	In-house OA-VOL06	○	Auth

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Analysis of ores and minerals	Iron ores	Sulfur	Classical	In-house S-IR08	○	Auth
Analysis of ores and minerals	Mineral sands	Radioactivity	Calculation	In-house ME-MS88	○	Auth
			to add calculation			
Analysis of ores and minerals	Uranium ores	Uranium	X-ray fluorescence (XRF)	In-house ME-XRF05	○	Auth
Analysis of ores and minerals	Geological samples; Metallurgical samples	Carbon - Graphitic	High temperature evolution	In-house C-IR18	○	Auth
Analysis of ores and minerals	Silver ores	Silver	ICP-AES	In-house ME-OG46 and ME-OG62	○	Auth
Analysis of ores and minerals	Lead ores; Metallurgical samples	Lead	ICP-AES	In-house ME-OG46 and ME-OG62	○	Auth
Analysis of ores and minerals	Phosphate rock	Aluminium oxide; Calcium oxide; Fluorine; Iron oxide; Magnesium oxide; Manganese oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide;	X-ray fluorescence (XRF)	In-house ME-XRF24	○	Auth

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Titanium dioxide

Analysis of ores and minerals	Mineral sands	Free quartz	Classical	In-house OA-MIN05	○	Auth
Analysis of refractories, ceramics and related materials	Clays	Aluminium oxide; Barium oxide; Calcium oxide; Chromium oxide; Iron oxide; Magnesium oxide; Manganese oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide; Sodium oxide; Sulfur trioxide (sulfuric anhydride); Titanium dioxide	X-ray fluorescence (XRF)	In-house ME-XRF26	○	Auth
Analysis of refractories, ceramics and related materials	Clays	Moisture	Classical	In-house OA-GRA10	○	Auth
Analysis of refractories, ceramics and related materials	Clays	Loss on ignition	Classical	In-house OA-GRA05 and ME-GRA05	○	Auth
Analysis of refractories, ceramics and related materials	Clays	Aluminium oxide; Barium oxide; Calcium oxide; Chromium oxide; Cobalt; Copper; Iron; Iron oxide; Magnesium oxide; Manganese oxide; Nickel; Phosphorus oxide; Potassium oxide; Silicon dioxide; Sodium oxide; Strontium oxide; Titanium dioxide; Tungsten; Vanadium oxide; Zinc; Zirconium dioxide	ICP-AES	In-house ME-ICP85	○	Auth

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