



NATA ACCREDITED LABORATORY

National Association of Testing Authorities, Australia

(ABN 59 004 379 748)

has accredited

Australian Laboratory Services Pty Ltd

Brisbane Laboratory

ALS Environmental, ALS Geochemistry, ALS Tribology

following demonstration of its technical competence to operate in accordance with

ISO/IEC 17025

This facility is accredited for the tests shown on the *Scope of Accreditation* issued by NATA

Jennifer Evans
Chief Executive Officer

Date of issue: 28 May 2021

Date of accreditation: 10 April 1970

Accreditation number: 825

Site number: 818



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SCOPE OF ACCREDITATION

Australian Laboratory Services Pty Ltd

BRISBANE LABORATORY
ALS ENVIRONMENTAL, ALS GEOCHEMISTRY, ALS TRIBOLOGY

| Accreditation Number: 825 | Site Number: 818 |

Date of Accreditation: 10/04/1970

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Availability: Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

ISO/IEC 17025 (2017)
Agribusiness

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of physical and nutritional characteristics	Sediments; Soils;	Emerson class number	Classical	AS 1289 3.8.1	
		Acids - Exchangeable	Classical	In-house ED002	

ISO/IEC 17025 (2017)
Environment

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis for chlorinated dioxins and dibenzofurans	Air monitoring cartridges; Fly ash; Ground waters; Polyurethane foam (PUF) plugs; Saline waters; Sediments; Soils; Trade wastes;	Polychlorinated dibenzodioxins (polychlorinated dibenzo-p-dioxins); Polychlorinated dibenzofurans;	GC-MS-MS	In-house EP300	
Analysis for cyanide	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Soils;	Cyanide - Free	Segmented flow analyser (SFA)	In-house QWI EN/EK025SF	



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	Steam-raising waters; Trade wastes;				
		Cyanide - Weak acid dissociable (WAD)	Segmented flow analyser (SFA)	In-house QWI EN/EK028SF	
		Cyanide - Total	Segmented flow analyser (SFA)	In-house QWI EN/EK026SF	
	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	
	Soils; Trade wastes;	Cyanate	Classical	In-house EN/EK020	
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 EG035	
		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	
		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	
	Vegetation	Antimony; Arsenic; Copper; Lead; Manganese; Selenium; Tin; Zinc;	ICP-MS	USEPA 200.2	
		Antimony; Arsenic; Copper; Lead; Manganese; Selenium; Tin; Zinc;	ICP-AES	In-house EG005 and EG020	



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	Industrial waters - Treated; Irrigation and stock waters; Saline waters; Steam-raising waters;	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; Uranium; Vanadium; Zinc;	ICP-MS	In-house EN/EG093 and EN/EG094	
	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	
		Mercury	Atomic absorption spectroscopy (AAS) - Vapour generation	In-house EG035	
		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	
Analysis for herbicides	Saline waters; Sediments; Soils; Waste waters;	Atrazine; Simazine;	GC-MS	In-house EP068A, EP075	
		Diallate; Propyzamide (pronamide, 3,5-dichloro-N-[1,1-dimethylpropynyl]benzamide, KERB);	GC-MS - Purge and trap	In-house EP074 and EP075	
	Ground waters; Saline waters; Sediments; Soils;	Trifluralin	GC-MS	In-house EP094	
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	
		Oxygenated hydrocarbons; Sulfonated hydrocarbons;	GC-MS - Purge and trap	In-house EP074 and EP075 in accordance with QWI-EN02	
		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, vinylidene 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;	GC-MS	In-house EP074 and EP075	



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	<p>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, HCB); 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;</p>			
	<p>1,3,5-Trinitrobenzene; 1-Chloronaphthalene; 1-Naphthylamine; 2,4-Dinitrotoluene (2,4-DNT); 2,6-Dinitrotoluene (2,6-DNT); 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); N,N-Dibutylnitrous amide (n-nitroso-di-n-butylamine; N-Nitrosodibutylamine); N-Nitroso-n-propylamine; N-Nitrosodiethylamine (N-ethyl-N-nitroso-ethanamine); N-Nitrosodimethylamine; N-Nitrosomethylethylamine; N-Nitrosomorpholine; N-Nitrosopiperidine; N-Nitrosopyrrolidine; Nitrobenzene (mononitrotoluene, MNT, methylnitrobenzene); p-Dimethylaminoazobenzene (4-dimethylaminoazobenzene, DAB, dimethylaminoazobenzene); Pentachloronitrobenzene (quintozene); Phenacetin;</p>	GC-MS - Purge and trap	In-house EP074 and EP075	
	<p>Polycyclic aromatic hydrocarbons (PAHs)</p>	GC-MS	In-house EP075 in accordance with QWI-EN/02	
	<p>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; m-Xylene; Methyl tert-butyl ether (MTBE); n-Butylbenzene; n-Propylbenzene; o-Xylene; Octachlorostyrene; p-Xylene; Pentachlorobenzene; Safrole; sec-Butylbenzene;</p>	GC-MS - Purge and trap	In-house EP074 and EP080	



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		Styrene (ethenyl benzene); tert-Butylbenzene; Toluene; Vinyl acetate;			
		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	
		Aliphatic halogenated hydrocarbons; Aromatic halogenated hydrocarbons; Halogenated hydrocarbons; Trihalomethanes;	GC-MS	In-house EP074 and EP075 in accordance with QWI-EN/02	
		Benzo(a)pyrene; Total carcinogenic polycyclic aromatic hydrocarbons (PAHs);	Calculation	NEPM Schedule B1	
	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	
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	
	Ground waters; Saline waters; Sediments; Soils;	Piperonyl butoxide	GC-MS	In-house EP094	
	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	
	Aqueous samples (including foams); Ground waters; Saline	4:2 Fluorotelomer sulfonic acid (4:2 FTSA, 1H,1H,2H,2H-perfluorohexane sulfonic acid); 6:2 Fluorotelomer sulfonic acid (6:2 FTSA); 8:2 Fluorotelomer sulfonic acid (8:2 FTSA, 1H,1H,2H,2H-perfluorodecane sulfonic acid); 10:2 Fluorotelomer sulfonic acid (10:2 FTSA, 1H,1H,2H,2H-perfluorododecane sulfonic acid);	LC-MS-MS	In-house EP231; EP231foam; Other PFAS in accordance with EN/02	



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	waters; Sediments; Soils; Surface waters;	N-Ethyl perfluorooctane sulfanamido ethanol (EtFOSE); N-Ethyl perfluorooctane sulfonamide (EtFOSA); N-Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA); N-Methyl perfluorooctane sulfanamido ethanol (MeFOSE); N-Methyl perfluorooctane sulfonamide (MeFOSA); N-Methyl perfluorooctane sulfonamido acetic acid (MeFOSAA); Perfluorobutane sulfonic acid (PFBS); Perfluorobutanoic acid (PFBA); Perfluorodecane sulfonic acid (PFDS); Perfluorodecanoic acid (PFDA); Perfluorododecanoic acid (PFDoDA); Perfluoroheptane sulfonic acid (PFHpS); Perfluoroheptanoic acid (PFHpA); Perfluorohexane sulfonic acid (PFHxS); Perfluorohexanoic acid (PFHxA); Perfluorononanoic acid (PFNA); Perfluorooctane sulfonamide (FOSA); Perfluorooctane sulfonate (PFOS); Perfluorooctanoic acid (PFOA); Perfluoropentane sulfonic acid (PFPeS); Perfluoropentanoic acid (PFPeA); Perfluorotetradecanoic acid (PFTeDA); Perfluorotridecanoic acid (PFTrDA); Perfluoroundecanoic acid (PFUnDA); Total oxidisable precursor assay (TOPA);			
	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	
	Biosolids	Total organic fluorine (TOF)	Ion chromatography (IC)	In-house EP040	
Analysis for nutrients	Saline waters; Surface waters; Trade wastes;	Nitrogen - Oxidised	Discrete analyser (DA)	In-house QWI-EN/EK059G	
		Nitrogen - Nitrate	Discrete analyser (DA)	In-house QWI-EN/EK058G	
	Saline waters; Soils; Surface waters; Trade wastes;	Nitrogen - Ammonia	Discrete analyser (DA)	In-house EK055 and EK255	
		Nitrogen - Total Kjeldahl (TKN)	Discrete analyser (DA)	In-house EK061 and EK261	
		Nitrogen - Oxidised	Discrete analyser (DA)	In-house EK059 and EK259	
		Nitrogen - Nitrate	Discrete analyser (DA)	In-house EK058 and	



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				EK258	
		Nitrogen - Nitrite	Discrete analyser (DA)	In-house EK057 and EK257	
		Phosphorus - Ortho	Discrete analyser (DA)	In-house EK071 and EK271	
	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	
		Nitrogen - Ammonia	Classical; Flow injection analyser (FIA);	In-house EK055 and EK255	
		Phosphorus - Ortho	Classical; Flow injection analyser (FIA);	In-house EK071 and EK271	
		Nitrogen - Nitrate	Classical; Flow injection analyser (FIA);	In-house EK058 and EK258	
		Nitrogen - Total Kjeldahl (TKN)	Classical; Flow injection analyser (FIA);	In-house EK061 and EK261	
	Fresh waters; Saline waters; Soils; Surface waters; Trade wastes;	Phosphorus - Total	Discrete analyser (DA)	In-house EK067 and EK267	
	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	



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	Fresh waters; 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	
	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	
	Industrial waters - Treated; Irrigation and stock waters; Steam-raising waters;	Nitrogen - Nitrate; Phosphorus - Phosphate;	Ion chromatography (IC)	In-house QWI-EN/ED013	
Analysis for organochlorine pesticides	Saline waters; Sediments; Soils; Waste waters;	α -Hexachlorocyclohexane (α -HCH); β -Hexachlorocyclohexane (β -HCH); δ -Hexachlorocyclohexane (δ -HCH); γ -Hexachlorobenzene (γ -benzene hexachloride, γ -BHC, γ -HCB, lindane); γ -Hexachlorocyclohexane (γ -HCH); Aldrin; cis-Chlordane (α -chlordane); Dichlorodiphenyldichloroethane (DDD); Dichlorodiphenyldichloroethylene (DDE); Dichlorodiphenyltrichloroethane (DDT); Dieldrin; Endosulfan I (α -endosulfan); Endosulfan II (β -endosulfan); Endosulfan sulfate; Endrin; Endrin aldehyde; Endrin ketone; Heptachlor; Heptachlor epoxide; Hexachlorobenzene (HCB); Isodrin; Methoxychlor; Organochlorine pesticides; trans-Chlordane (γ -chlordane);	GC-MS	In-house EP068A, EP075	
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	
		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	



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	Ground waters; Saline waters; Sediments; Soils;	2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate (mevinphos); Fenchlorphos (ronnel); Fipronil;	GC-MS	In-house EP094	
Analysis for petroleum hydrocarbons	Saline waters; Sediments; Soils; Trade wastes;	Total petroleum hydrocarbons (TPH) - Variable fractions: C ₆ -C ₄₀ ; Total recoverable hydrocarbons (TRH) - Variable fractions: C ₆ -C ₄₀ ;	GC-FID - Purge and trap; GC-MS;	In-house QWI-ORG/14, QWI-ORG/16, QWI-ORG/17, QWI-ORG/21, EP071 and EP080	
	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes;	Total petroleum hydrocarbons (TPH)	Classical	In-house EP015	
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	
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	
Analysis for physical and chemical characteristics	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Saline waters; Sewage; Trade wastes;	Ultraviolet absorbance; Ultraviolet transmittance;	UV-vis spectrophotometry	In-house EA043/EA044	
	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage;	Turbidity	Classical	APHA 2130 B and in-house EA045	



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Steam-raising waters; Trade wastes;				
	Solids - Total	Classical	APHA 2540 B and in-house EA030	
	Colour - Apparent	Classical	APHA 2120 B and in-house EA040	
	Oil and grease	Classical	APHA 5520 B and in-house EP020	
	Methyl blue active substances (MBAS); Surfactants - Anionic;	Classical	APHA 5540 B, 5540 C in-house EP050	
	Phaeophytin; Pheopigments - Lorenzen;	Calculation	In-house method EN/EP008	
	Alkalinity - Carbonate	Classical	APHA 2320 B and in-house ED030	
	Chlorophyll a; Chlorophyll a - Lorenzen; Chlorophyll b; Chlorophyll c;	UV-vis spectrophotometry	In-house EP008	
	Surfactants - Non-ionic as cobalt thiocyanate active substances (CTAS)	UV-vis spectrophotometry	APHA 5540 B, 5540 D in-house EP041	
	Fluoride	Classical	APHA 4500 F ⁻ C and in-house EK040	
	Solids - Dissolved	Classical	APHA 2540 C and in-house EA015	
	Colour - True	Classical	APHA 2120 B and in-house EA041	
	Thiocyanate	Classical	APHA 4500 CN ⁻ M and in-house EK027	
	Sulfate; Sulfur;	Classical; ICP-AES;	APHA 3120, 4500 SO ₄ ²⁻ E and in-house ED040, ED041	
	Phenols	Discrete analyser (DA)	In-house EP035D and EP035G	
	Sulfite	Classical	In-house EK086	
	Lime dissolving carbonic acid	Classical	In-house EA145	
	Iron - Ferrous	Classical	APHA 3500 Fe ⁺ B	
	Solids - Total dissolved (TDS)	Calculation	In-house EA016	
	Alkalinity - Hydroxide	Classical	APHA 2320 B	



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				and in-house ED025
		Tannins	Classical	In-house EP011
		Chemical oxygen demand (COD)	UV-vis spectrophotometry	In-house QWI EN/EP026SP
		Acidity	Classical	APHA 2310 B and in-house ED038
		Solids - Settleable	Classical	APHA 2540 F and in-house EA034
		Solids - Suspended	Classical	APHA 2540 D and in-house EA025
		Chemical oxygen demand (COD)	Classical	APHA 5220 B and in-house EP026
		Sulfur - Total oxidised	Classical	In-house ED043
		Colour - Apparent; Colour - True;	UV-vis spectrophotometry	In-house EA040U-41U
		pH	Classical	APHA 4500 H ⁺ B and in-house EA005
		Chlorine - Residual; Chlorine - Total;	UV-vis spectrophotometry	In-house EK010
		Chromium VI (hexavalent chromium)	Discrete analyser (DA)	In-house EG050G
		Alkalinity - Bicarbonate	Classical	APHA 2320 B and in-house ED035
		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
		Iron - Ferrous	Discrete analyser (DA)	In-house EG051
		Sulfate	Discrete analyser (DA)	In-house ED041G
		Carbon dioxide (CO ₂)	Classical	In-house EA165
		Dissolved oxygen (DO)	Classical	In-house EP025
		Solids - Fixed; Solids - Volatile;	Classical	APHA 2540 E and in-house EA035
		Acids - Volatile	Classical	APHA 5560 C in-house EP045
		Biochemical oxygen demand (BOD);	Electrometric	APHA 5210 B



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		Carbonaceous biochemical oxygen demand (CBOD);		In-house EP030	
		Solids - Fixed; Solids - Suspended volatile;	Classical	APHA 2540 E and in-house EA036	
		Salinity	Calculation	APHA 2510 B and in-house EA020EC	
		Hardness - Total	Classical	APHA 2340 B and in-house EA065	
		Sulfide	UV-vis spectrophotometry	APHA 4500 S ²⁻ D and in-house EK085M	
		Chromium VI (hexavalent chromium)	UV-vis spectrophotometry	APHA 3500 Cr B	
	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	
		Carbon - Total inorganic (TIC)	Classical	In-house EP006	
		Carbon - Total organic (TOC)	Nondispersive infrared (NDIR)	In-house EP005	
	Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes;	Chloride	Classical	APHA 4500 Cl ⁻ B and in-house ED045	
		Conductivity	Classical	APHA 2510 B and in-house EA010	
		Formaldehyde (methanal)	UV-vis spectrophotometry	In-house EP010	
	Elutriates; Marine waters;	Sample preparation	Elutriate procedures	In-house EN68	



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	Soils - Acid sulfate	Chromium - Speciation	Distillation; Titration;	In-house EA033	
	Marine waters; Sediments; Soils;	Sample preparation - Non-volatile components; Sample preparation - Semi-volatile components;	1:5 Water leaching procedure; Elutriate procedures; Leachate procedures;	In-house EN034	1:5 soil/sediment:water leach
	Air - Ambient	Solids - Insoluble	Classical	AS3580.10.1 and in-house EA141	
		Solids - Soluble	Classical	AS3580.10.1 and in-house EA139	
		Ash	Classical	AS3580.10.1 and in-house EA120	
		Combustible matter	Classical	AS3580.10.1 and in-house EA125	
		Solids - Total	Classical	AS3580.10.1 and in-house EA142	
	Fresh waters; Saline waters; Surface waters; Trade wastes;	Organic carbon - Non-purgeable	Nondispersive infrared (NDIR)	In-house EP005	
	Fresh waters; Ground waters; Industrial waters - Treated; Irrigation and stock waters; Mine dam water; Mine tailings; Saline waters; Sewage; Steam-raising waters; Trade wastes;	Silica	ICP-AES	In-house ED040	
	Soils	Particle density	Classical	AS1289.3.5.1 and in-house QWI-EN/EA152	
		Particle size	Classical	AS1289 3.6.1, AS1289.3.6.3 and in-house QWI-EN/EA150	
	Leachates	Sulfate - Calcium phosphate extractable	Classical	In-house ED040N	
	Trade wastes	Sugar	Classical	In-house QWI-EN/EA049	



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	Industrial waters - Treated; Irrigation and stock waters; Saline waters; Sewage; Steam-raising waters; Trade wastes;	Silica	Discrete analyser (DA)	In-house QWI-EN/EG052G	
	Industrial waters - Treated; Irrigation and stock waters; Saline waters; Sediments; Sewage; Soils; Steam-raising waters; Trade wastes;	Chloride	Discrete analyser (DA)	In-house ED045G	
	Industrial waters - Treated; Irrigation and stock waters; Steam-raising waters;	Bromate; Chlorate; Chlorite; Fluoride;	Ion chromatography (IC)	In-house QWI-EN/ED013	
		Bromide; Chloride; Sulfate;	Ion chromatography (IC)	In-house QWI-EN/ED009 and QWI-EN/ED013	
	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	
	Sediments; Soils;	Acid neutralising capacity (ANC)	Classical	In-house EA013	
		pH	Classical	APHA 4500 H ⁺ B and in-house EA002	
		Sulfide	Calculation	In-house EK085	
		Sulfur - Total	Dumas	In-house ED042	
		Moisture	Classical	In-house EA055	
		Carbon - Total organic (TOC)	Dumas	In-house EP003	



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		Organic matter	Classical	AS 1289.4.1.1 and in-house EP004	
		Sulfide - Acid soluble	Classical	In-house EA027	
		Sulfide - Acid insoluble	Classical	In-house EA028	
		Sulfate; Sulfur;	Classical; ICP-AES;	APHA 3120, APHA 4500 SO ₄ ²⁻ E and in-house ED040	
		Chromium VI (hexavalent chromium)	UV-vis spectrophotometry	In-house EG048	
		Sample preparation - Non-volatile components; Sample preparation - Semi-volatile components;	Toxicity characteristic leaching procedure (TCLP)	AS4439.3 (1997) and in-house EN60	
		Carbon - Total inorganic (TIC)	Calculation	In-house EP003	
		Sample preparation - Volatile components	Toxicity characteristic leaching procedure (TCLP)	AS4439.2 (1997) and AS4439.3 (1997) and in-house EN60	
		Ammonium; Cation exchange capacity (CEC);	Classical	In-house ED003	
		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	
		Sulfur - Acid volatile	Classical	In-house EA038	
		Sulfur - Chromium reducible	Distillation; Titration;	In-house EA026	
		Sulfide - Acid volatile	ICP-AES; ICP-MS;	In-house QWI-EN/EA038SEM	
		Sulfur - Total oxidised	Classical	In-house ED043	
		Chromium VI (hexavalent chromium)	Discrete analyser (DA)	In-house EG0048G	
		Acid producing potential of acid sulfate	Classical	In-house EA009	
		Net acid generation (NAG)	Classical	In-house EA011	
		Suspension peroxide oxidation combined acidity and sulfur (SPOCAS)	Titration	In-house EA029	
Analysis for polyhalogenated biphenyls	Saline waters; Sediments; Soils; Trade wastes;	Polychlorinated biphenyls (PCBs) - Total	GC-MS	In-house EP066	
		2,3',4,4',5'-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 123); 2,3',4,4',5,5'-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 167); 2,3',4,4',5-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 118); 2,3,3',4,4',5'-	GC-MS-MS	In-house EP301	



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		Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 157); 2,3,3',4,4',5,5'-Heptachlorobiphenyl (polychlorinated biphenyl (PCB) congener 189); 2,3,3',4,4',5-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 156); 2,3,3',4,4'-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 105); 2,3,4,4',5-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 114); 3,3',4,4',5,5'-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 169); 3,3',4,4',5-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 126); 3,3',4,4'-Tetrachlorobiphenyl (polychlorinated biphenyl (PCB) congener 77); 3,4,4',5-Tetrachlorobiphenyl (polychlorinated biphenyl (PCB) congener 81);			
Analysis for pyrethroid and pyrethrum pesticides	Saline waters; Sediments; Soils; Waste waters;	Cypermethrin	GC-MS	In-house EP068A, EP075	
	Ground waters; Saline waters; Sediments; Soils;	λ-Cyhalothrin; Bifenthrin; Bioresmethrin; Cyfluthrin (((R)-cyano-[4-fluoro-3-(phenoxy)phenyl]methyl) (1R,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate); Cypermethrin; Deltamethrin; Esfenvalerate; Fenvalerate; Permethrin; Phenothrin; Tralomethrin;	GC-MS	In-house EP094	
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; Scandium; Selenium; Silicon; Silver; Sodium; Strontium; Sulfur; Tellurium; Terbium; Thallium; Thorium; Thulium; Tin; Titanium; Tungsten; Uranium; Vanadium; Ytterbium; Yttrium; Zinc; Zirconium;	Flow injection mercury system (FIMS) - Atomic absorption spectroscopy (AAS); ICP-AES; ICP-MS;	In-house QWI-EN/71, EG005-SDH, EG035-SDH; EG020-SDH	
		Aluminium; Magnesium;	ICP-MS	in house ED089	Calcium chloride extractable metals
		Cadmium; Copper; Lead; Nickel; Zinc;	ICP-AES; ICP-MS;	In-house QWI-EN/EA038SEM	
Sample collection	Bore waters; Recycled waters; Saline waters; Sewage;	Not applicable	Automated; Composite; Grab; Manual by hand;	In-house QWI-EN/67.B	

ISO/IEC 17025 (2017)
Food and Beverage

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis for chlorinated dioxins and dibenzofurans	Waters for potable and domestic purposes	Polychlorinated dibenzodioxins (polychlorinated dibenzo-p-dioxins); Polychlorinated dibenzofurans;	GC-MS-MS	In-house EP300	
Analysis for elements	Seafood and seafood products	Mercury	Flow injection mercury system (FIMS) - Atomic absorption spectroscopy (AAS)	In-house EG035	



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		Antimony; Arsenic; Cadmium; Copper; Lead; Manganese; Selenium; Tin; Zinc;	ICP-AES	In-house EG005 and EG020	
		Antimony; Arsenic; Cadmium; Copper; Lead; Manganese; Selenium; Tin; Zinc;	ICP-MS	USEPA 200.2	
	Waters for potable and domestic purposes	Mercury	Atomic absorption spectroscopy (AAS) - Vapour generation	In-house EG035	
		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	
		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; Uranium; Vanadium; Zinc;	ICP-MS	In-house EN/EG093 and EN/EG094	
		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	
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	
		Trifluralin	GC-MS	In-house EP094	
		Atrazine; Simazine;	GC-MS	In-house EP068A, EP075	
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 (3-cresol, m-cresol); 4-Chloro-3-methylphenol; 4-Methylphenol (4-cresol, p-cresol); 4-Nitrophenol; Hexachlorophene; Pentachlorophenol; Phenol;	GC-MS	In-house EP075	
Analysis for polyhalogenated biphenyls	Waters for potable and domestic purposes	2,3',4,4',5'-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 123); 2,3',4,4',5,5'-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 167); 2,3',4,4',5-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 118); 2,3,3',4,4',5'-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 157); 2,3,3',4,4',5,5'-Heptachlorobiphenyl (polychlorinated biphenyl (PCB) congener 189); 2,3,3',4,4',5-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 156); 2,3,3',4,4'-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 105); 2,3,4,4',5-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 114); 3,3',4,4',5,5'-Hexachlorobiphenyl (polychlorinated biphenyl (PCB) congener 169); 3,3',4,4',5-Pentachlorobiphenyl (polychlorinated biphenyl (PCB) congener 126); 3,3',4,4'-Tetrachlorobiphenyl (polychlorinated biphenyl (PCB) congener 77); 3,4,4',5-Tetrachlorobiphenyl (polychlorinated biphenyl (PCB) congener 81);	GC-MS-MS	In-house EP301	
		Polychlorinated biphenyls (PCBs) - Total	GC-MS	In-house	



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				EP066	
Analysis for pyrethroid and pyrethrum pesticides	Potable waters	Cypermethrin	GC-MS	In-house EP068A, EP075	
		λ-Cyhalothrin; Bifenthrin; Bioresmethrin; Cyfluthrin ([[(R)-cyano-[4-fluoro-3-(phenoxy)phenyl]methyl] (1R,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate); Cypermethrin; Deltamethrin; Esfenvalerate; Fenvalerate; Permethrin; Phenothrin; Tralomethrin;	GC-MS	In-house EP094	
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	
		Bromoacetic acid; Bromodichloroacetic acid; Dibromoacetic acid; Dibromochloroacetic acid; Dichloroacetic acid; Monochloroacetic acid; Tribromoacetic acid; Trichloroacetic acid;	GC-MS	In-house QWI-ORG/EP120-1	
		Volatile halogenated monocyclic hydrocarbons	GC-MS - Purge and trap	In-house EP074 and EP080 in accordance with QWI-EN/02	
		Polycyclic aromatic hydrocarbons (PAHs)	GC-MS	In-house EP075 in accordance with QWI-EN/02	
		Cyanide - Total	Segmented flow analyser (SFA)	In-house QWI EN/EK026SF	
		4:2 Fluorotelomer sulfonic acid (4:2 FTSA, 1H,1H,2H,2H-perfluorohexane sulfonic acid); 6:2 Fluorotelomer sulfonic acid (6:2 FTSA); 8:2 Fluorotelomer sulfonic acid (8:2 FTSA, 1H,1H,2H,2H-perfluorodecane sulfonic acid); 10:2 Fluorotelomer sulfonic acid (10:2 FTSA, 1H,1H,2H,2H-perfluorododecane sulfonic acid); N-Ethyl perfluorooctane sulfanamido ethanol (EtFOSE); N-Ethyl perfluorooctane sulfonamide (EtFOSA); N-Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA); N-Methyl perfluorooctane sulfanamido ethanol (MeFOSE); N-Methyl perfluorooctane sulfonamide (MeFOSA); N-Methyl perfluorooctane sulfonamido acetic acid (MeFOSAA); Perfluorobutane sulfonic acid (PFBS); Perfluorobutanoic acid (PFBA); Perfluorodecane sulfonic acid (PFDS); Perfluorodecanoic acid (PFDA); Perfluorododecanoic acid (PFDoDA); Perfluoroheptane sulfonic acid (PFHpS); Perfluoroheptanoic acid (PFHpA); Perfluorohexane sulfonic acid (PFHxS); Perfluorohexanoic acid (PFHxA); Perfluorononanoic acid (PFNA); Perfluorooctane sulfonamide (FOSA); Perfluorooctane sulfonate (PFOS); Perfluorooctanoic acid (PFOA); Perfluoropentane sulfonic acid (PFPeS); Perfluoropentanoic acid (PFPeA); Perfluorotetradecanoic acid (PFTeDA); Perfluorotridecanoic acid (PFTrDA);	LC-MS-MS	In-house EP231 Other PFAS in accordance with EN/02	



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	Perfluoroundecanoic acid (PFUnDA); Total oxidisable precursor assay (TOPA);			
	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	
	1,3,5-Trinitrobenzene; 1-Chloronaphthalene; 1-Naphthylamine; 2,4-Dinitrotoluene (2,4-DNT); 2,6-Dinitrotoluene (2,6-DNT); 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); N,N-Dibutylnitrous amide (n-nitroso-di-n-butylamine; N-Nitrosodibutylamine); N-Nitroso-n-propylamine; N-Nitrosodiethylamine (N-ethyl-N-nitroso-ethanamine); N-Nitrosodimethylamine; N-Nitrosomethylethylamine; N-Nitrosomorpholine; N-Nitrosopiperidine; N-Nitrosopyrrolidine; Nitrobenzene (mononitrotoluene, MNT, methylnitrobenzene); p-Dimethylaminoazobenzene (4-dimethylaminoazobenzene, DAB, dimethylaminoazobenzene); Pentachloronitrobenzene (quintozene); Phenacetin;	GC-MS - Purge and trap	In-house EP074 and EP075	
	Aliphatic halogenated hydrocarbons; Aromatic halogenated hydrocarbons; Halogenated hydrocarbons; Trihalomethanes;	GC-MS	In-house EP074 and EP075 in accordance with QWI-EN/02	
	Benzo(a)pyrene; Total carcinogenic polycyclic aromatic hydrocarbons (PAHs);	Calculation	NEPM Schedule B1	
	Total petroleum hydrocarbons (TPH)	Classical	In-house EP015	
	Total oxidisable precursor assay (TOPA)	LC-MS-MS	In-house QWI-ORG/70	
	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, vinylidene 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); Hexachloro-1,3-butadiene (hexachlorobutadiene, HCBd); Hexachlorocyclopentadiene (HCCPD); Hexachloroethane; Hexachloropropene;	GC-MS	In-house EP074 and EP075	



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	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;		
	Total petroleum hydrocarbons (TPH) - Variable fractions: C ₆ -C ₄₀ ; Total recoverable hydrocarbons (TRH) - Variable fractions: C ₆ -C ₄₀ ;	GC-FID - Purge and trap; GC-MS;	In-house QWI-ORG/14, QWI-ORG/16, QWI-ORG/17, QWI-ORG/21, EP071 and EP080
	Cyanate	Classical	In-house EN/EK020
	Cyanide - Free	Segmented flow analyser (SFA)	In-house QWI EN/EK025SF
	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; m-Xylene; Methyl tert-butyl ether (MTBE); n-Butylbenzene; n-Propylbenzene; o-Xylene; Octachlorostyrene; p-Xylene; Pentachlorobenzene; Safrole; sec-Butylbenzene; Styrene (ethenyl benzene); tert-Butylbenzene; Toluene; Vinyl acetate;	GC-MS - Purge and trap	In-house EP074 and EP080
	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
	Cyanide - Amenable to chlorination	Classical; Discrete analyser (DA); Flow injection analyser (FIA);	In-house QWI-EN/EK030
	Piperonyl butoxide	GC-MS	In-house EP094
	Cyanide - Weak acid dissociable (WAD)	Segmented flow analyser (SFA)	In-house QWI EN/EK028SF
	Dibutyltin; Monobutyltin; Tributyltin (TBT);	GC-MS	In-house EP090
	Oxygenated hydrocarbons; Sulfonated hydrocarbons;	GC-MS - Purge and trap	In-house EP074 and EP075 in accordance



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				with QWI-EN02	
		2-Methylisoborneol (MIB); Geosmin;	GC-MS - Headspace	In-house QWI-ORG/EP115	
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	
		2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate (mevinphos); Fenchlorphos (ronnel); Fipronil;	GC-MS	In-house EP094	
		Chlorpyrifos ethyl (chlorpyrifos); Chlorpyrifos methyl; Diazinon; Dichlorvos; Diethyl-2-([dimethoxyphosphorothioyl]sulfanyl)butanedioate (maldison, malathion, carbofos, mercaptotion); Dimethoate; Ethion; Fenthion; Pirimiphos ethyl; Prothiofos;	GC-MS	In-house EP068B, EP075, ORG-03 and ORG-05	
		α -Hexachlorocyclohexane (α -HCH); β -Hexachlorocyclohexane (β -HCH); δ -Hexachlorocyclohexane (δ -HCH); γ -Hexachlorobenzene (γ -benzene hexachloride, γ -BHC, γ -HCB, lindane); γ -Hexachlorocyclohexane (γ -HCH); Aldrin; cis-Chlordane (α -chlordane); Dichlorodiphenyldichloroethane (DDD); Dichlorodiphenyldichloroethylene (DDE); Dichlorodiphenyltrichloroethane (DDT); Dieldrin; Endosulfan I (α -endosulfan); Endosulfan II (β -endosulfan); Endosulfan sulfate; Endrin; Endrin aldehyde; Endrin ketone; Heptachlor; Heptachlor epoxide; Hexachlorobenzene (HCB); Isodrin; Methoxychlor; Organochlorine pesticides; trans-Chlordane (γ -chlordane);	GC-MS	In-house EP068A, EP075	
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Formaldehyde (methanal)	UV-vis spectrophotometry	In-house EP010	
		Phosphorus - Ortho	Discrete analyser (DA)	In-house EK071 and EK271	
		Nitrogen - Nitrate	Discrete analyser (DA)	In-house QWI-EN/EK058G	
		Solids - Total	Classical	APHA 2540 B and in-house EA030	
		Tannins	Classical	In-house EP011	
		Carbon - Total	Classical	In-house EP007	
		Alkalinity - Carbonate	Classical	APHA 2320 B and in-house ED030	
		Nitrogen - Nitrate; Phosphorus - Phosphate;	Ion chromatography (IC)	In-house QWI-EN/ED009	
		Chromium VI (hexavalent chromium)	Discrete analyser (DA)	In-house EG050G	
		Chlorine - Residual; Chlorine - Total;	UV-vis spectrophotometry	In-house EK010	



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	Phosphorus - Total	Discrete analyser (DA)	In-house EK067 and EK267
	Ultraviolet absorbance; Ultraviolet transmittance;	UV-vis spectrophotometry	In-house EA043/EA044
	Carbon - Total organic (TOC); Organic carbon - Non-purgeable;	Nondispersive infrared (NDIR)	In-house EP005
	Iron - Ferrous	Classical	APHA 3500 Fe ⁻ B
	Phenols	Discrete analyser (DA)	In-house EP035D and EP035G
	Nitrogen - Nitrate; Phosphorus - Phosphate;	Ion chromatography (IC)	In-house QWI-EN/ED013
	Nitrogen - Total	Flow injection analyser (FIA)	In-house EK262PA
	Chlorophyll a; Chlorophyll a - Lorenzen; Chlorophyll b; Chlorophyll c;	UV-vis spectrophotometry	In-house EP008
	Methyl blue active substances (MBAS); Surfactants - Anionic;	Classical	APHA 5540 B, 5540 C in-house EP050
	Sulfite	Classical	In-house EK086
	Nitrogen - Nitrate	Discrete analyser (DA)	In-house EK058 and EK258
	Nitrogen - Total Kjeldahl (TKN)	Discrete analyser (DA)	In-house EK061 and EK261
	Colour - Apparent; Colour - True;	UV-vis spectrophotometry	In-house EA040U-41U
	Iron - Ferrous	Discrete analyser (DA)	In-house EG051
	Solids - Fixed; Solids - Suspended volatile;	Classical	APHA 2540 E and in-house EA036
	Carbon - Total inorganic (TIC)	Classical	In-house EP006
	Solids - Suspended	Classical	APHA 2540 D and in-house EA025
	Nitrogen - Nitrate	Classical; Flow injection analyser (FIA);	In-house EK058 and EK258
	Sugar	Classical	In-house QWI-EN/EA049
	Conductivity	Classical	APHA 2510 B and in-house EA010
	Dissolved oxygen (DO)	Classical	In-house EP025
	Fluoride	Classical	APHA 4500 F ⁻ C and in-house EK040
	Salinity	Calculation	APHA 2510 B and in-house



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				EA020EC
		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
		Nitrogen - Oxidised	Discrete analyser (DA)	In-house EK059 and EK259
		Nitrogen - Ammonia	Discrete analyser (DA)	In-house EK055 and EK255
		Chloride	Classical	APHA 4500 Cl ⁻ B and in-house ED045
		Alkalinity - Bicarbonate	Classical	APHA 2320 B and in-house ED035
		Alkalinity - Hydroxide	Classical	APHA 2320 B and in-house ED025
		Colour - True	Classical	APHA 2120 B and in-house EA041
		Nitrogen - Nitrite	Discrete analyser (DA)	In-house EK057 and EK257
		Thiocyanate	Classical	APHA 4500 CN ⁻ M and in-house EK027
		Acids - Volatile	Classical	APHA 5560 C in-house EP045
		Solids - Fixed; Solids - Volatile;	Classical	APHA 2540 E and in-house EA035
		Sulfur - Total oxidised	Classical	In-house ED043
		Colour - Apparent	Classical	APHA 2120 B and in-house EA040
		Phaeophytin; Pheopigments - Lorenzen;	Calculation	In-house method EN/EP008
		Acidity	Classical	APHA 2310 B and in-house ED038
		Iodide	Ion chromatography (IC)	In-house QWI-EN/ED009
		Chromium VI (hexavalent chromium)	UV-vis spectrophotometry	APHA 3500 Cr B
		pH	Classical	APHA 4500 H ⁺ B and in-house EA005
		Nitrogen - Nitrite	Classical; Flow injection analyser (FIA);	In-house EK057 and EK257
		Hardness - Total	Classical	APHA 2340 B and in-house



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				EA065
		Lime dissolving carbonic acid	Classical	In-house EA145
		Phosphorus - Total	Classical; Flow injection analyser (FIA);	In-house EK067 and EK267
		Silica	Discrete analyser (DA)	In-house QWI-EN/EG052G
		Sulfate; Sulfur;	Classical; ICP-AES;	APHA 3120, 4500 SO ₄ ²⁻ E and in-house ED040, ED041
		Turbidity	Classical	APHA 2130 B and in-house EA045
		Bromate; Chlorate; Chlorite; Fluoride;	Ion chromatography (IC)	In-house QWI-EN/ED013
		Sulfide	UV-vis spectrophotometry	APHA 4500 S ²⁻ D and in-house EK085M
		Chemical oxygen demand (COD)	Classical	APHA 5220 B and in-house EP026
		Bromide; Chloride; Sulfate;	Ion chromatography (IC)	In-house QWI-EN/ED009 and QWI-EN/ED013
		Solids - Dissolved	Classical	APHA 2540 C and in-house EA015
		Nitrogen - Total Kjeldahl (TKN)	Classical; Flow injection analyser (FIA);	In-house EK061 and EK261
		Surfactants - Non-ionic as cobalt thiocyanate active substances (CTAS)	UV-vis spectrophotometry	APHA 5540 B, 5540 D in-house EP041
		Solids - Total dissolved (TDS)	Calculation	In-house EA016
		Solids - Settleable	Classical	APHA 2540 F and in-house EA034
		Nitrogen - Oxidised	Discrete analyser (DA)	In-house QWI-EN/EK059G
		Nitrogen - Ammonia	Classical; Flow injection analyser (FIA);	In-house EK055 and EK255
		Sulfate	Discrete analyser (DA)	In-house ED041G
		Carbon dioxide (CO ₂)	Classical	In-house EA165
		Oil and grease	Classical	APHA 5520 B and in-house EP020
		Chemical oxygen demand (COD)	UV-vis spectrophotometry	In-house QWI-EN/EP026SP



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		Chloride	Discrete analyser (DA)	In-house ED045G	
		Silica	ICP-AES	In-house ED040	
		Biochemical oxygen demand (BOD); Carbonaceous biochemical oxygen demand (CBOD);	Electrometric	APHA 5210 B In-house EP030	
		Phosphorus - Ortho	Classical; Flow injection analyser (FIA);	In-house EK071 and EK271	
Sample collection	Waters for potable and domestic purposes	Not applicable	Automated; Composite; Grab; Manual by hand;	In-house QWI-EN/67.B	

ISO/IEC 17025 (2017)
Infrastructure and Asset Integrity

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Evaluation of geotechnical and civil construction material - Aggregate contaminants	Aggregates	Sugar	Fehlings solution	in-house EA049	

ISO/IEC 17025 (2017)
Materials

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of agricultural products and treatment materials	Soils	Ammonium chloride - Exchangeable cations; Calcium; Effective cation exchange capacity (ECEC); Magnesium; Potassium; Sodium;	ICP-AES	In-house ED007	No pre-treatment for removal of soluble salts
		Ammonium chloride - Exchangeable cations; Calcium; Effective cation exchange capacity (ECEC); Exchangeable sodium percentage (ESP); Magnesium; Potassium; Sodium;	ICP-AES	In-house ED008	After pre-treatment for removal of soluble salts
Analysis of biofuels, hydrocarbon fuels and related fuel products	Natural gas	Hydrogen sulfide	GC-SCD	In-house QWI-ORG/EP 251	
		1-Butylene (1-butene); 2-Methylbutane (isopentane); Butane (n-butane); Carbon dioxide (CO ₂); Ethane; Ethene (ethylene); Helium; Heptane (n-heptane); Hexane (n-hexane); Hydrogen; Hydrogen sulfide; Isobutane; Methane; Nitrogen; Octanes+; Oxygen; Pentane (n-pentane); Propane; Propene (propylene);	GC-FID; GC-TCD;	In-house QWI-ORG/EP 250	
Analysis of cements and cementitious materials - Composition	Cement products	Chloride	Titration	In-house CI-VOL66	
Analysis of lubricants, oils and related products	Greases; Lubricating oils;	Acid number of petroleum products	Potentiometric titration	ASTM D664	



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		Base number of petroleum products	Potentiometric perchloric acid titration	ASTM D2896B
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
	Copper ores; Metallurgical samples;	Copper	ICP-AES	In-house ME-OG46 and ME-OG62
		Copper	Classical	In-house Cu-VOL61
	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
		Arsenic oxide; Chromium oxide; Lead oxide; Thorium dioxide; Tin dioxide; Uranium oxide; Yttrium oxide; Zinc;	ICP-MS	In-house ME-MS88
		Iron oxide	Classical	In-house OA-VOL06
		Aluminium oxide; Calcium oxide; Chromium oxide; Hafnium oxide; Iron oxide; Magnesium oxide; Manganese oxide; Niobium oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide; Thorium oxide; Titanium dioxide; Uranium oxide; Vanadium oxide; Zirconium dioxide;	X-ray fluorescence (XRF)	In-house ME-XRF31z
		Radioactivity	Calculation	In-house ME-MS88
		Quartz - Free	Classical	In-house OA-MIN05
	Iron ores	Aluminium; Arsenic; Calcium; Copper; Iron; Magnesium; Manganese; Phosphorus; Potassium; Silicon; Strontium; Titanium; Vanadium; Zinc;	X-ray fluorescence (XRF)	In-house ME-XRF21n
		Sulfur	Classical	In-house S-IR08
	Metallurgical samples; Zinc ores;	Zinc	ICP-AES	In-house ME-OG46 and ME-OG62
	Dolomite; Iron ores; Limestone; Silica sands;	Moisture	Classical	In-house OA-GRA10
	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
	Dolomite; Limestone; Mineral sands; Silica sands;	Loss on ignition	Classical	In-house OA-GRA05 and ME-GRA05
	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	X-ray fluorescence (XRF)	In-house ME-XRF13n



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		oxide; Sulfur trioxide (sulfuric anhydride); Titanium dioxide; Vanadium oxide; Zinc oxide; Zirconium dioxide;			
	Aluminium ores; Iron ores; Nickel ores; Phosphate rock; Silicate materials;	Loss on ignition	Classical	In-house ME- GRA05	
	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	Sieve analysis	In-house OA- SIZE D	Sizings down to 45 microns
	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; 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 and ME- ICP61	
	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	
	Geological samples; Metallurgical samples;	Carbon - Inorganic	Calculation	In-house C- CAL15	
		Sulfur - Sulfide	Calculation	In-house S- CAL07	
		Sulfate - Acid soluble	Combustion; Dumas;	In-house S- SCP16 and S-	



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				IR08	
		Carbon - Total organic (TOC)	Dumas	In-house C-IR17 and C-IR07	
		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	
		Carbon - Graphitic	High temperature evolution	In-house C-IR18	
	Silica sands	Aluminium oxide; Calcium oxide; Chromium oxide; Iron oxide; Magnesium oxide; Silicon dioxide; Titanium dioxide;	ICP-AES; ICP-MS;	In-house ME-PKG85	
	Silicate materials	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;	X-ray fluorescence (XRF)	In-house ME-XRF26	
	Chromium ores	Chromium	ICP-AES	In-house ME-ICP81x	
	Silver ores	Silver	ICP-AES	In-house ME-OG46 and ME-OG62	
	Gold ores	Gold	Atomic absorption spectroscopy (AAS); ICP-MS;	In-house Au-OG43, Au-OG44, Au-ST43, Au-ST44, Au-TL43 and Au-TL44	
	Lead ores; Metallurgical samples;	Lead	ICP-AES	In-house ME-OG46 and ME-OG62	
	Phosphate rock	Aluminium oxide; Calcium oxide; Fluorine; Iron oxide; Magnesium oxide; Manganese oxide; Phosphorus oxide; Potassium oxide; Silicon dioxide; Titanium dioxide;	X-ray fluorescence (XRF)	In-house ME-XRF24	
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	
		Moisture	Classical	In-house OA-GRA10	
		Loss on ignition	Classical	In-house OA-GRA05 and ME-GRA05	
		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	

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