



# National Association of Testing Authorities, Australia

## SCOPE OF ACCREDITATION

### ALS Water Resources Group

#### GEELONG CHEMISTRY LABORATORY

| Accreditation Number: 992 | Site Number: 1336 |

**Date of Accreditation:** 19/09/1978

**Address Details:**

16 Crown Street  
SOUTH GEELONG, VIC 3220  
AUSTRALIA

**Website:** [www.alsglobal.com](http://www.alsglobal.com)

**Contact Details:**

Ms Adele Vance  
+61(03) 52469403

[adele.vance@alsglobal.com](mailto:adele.vance@alsglobal.com)

**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) Environment

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis for nutrients	Industrial waters - Treated; Irrigation and stock waters; Saline waters; Sewage; Steam-raising waters; Trade wastes;	Bromide; Chlorate; Chloride; Fluoride; Nitrate; Nitrite; Phosphate; Sulfate;	Ion chromatography (IC)	In-house WD013GE	
		Nitrogen - Organic	Ion selective electrode (ISE)	In-house EK060	
		Nitrogen - Total Kjeldahl (TKN)	Ion selective electrode (ISE)	In-house WK061ISE	
		Nitrogen - Ammonia; Nitrogen - Total Kjeldahl (TKN); Phosphorus - Ortho;	Flow injection analyser (FIA)	In-house WK061A LL	



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		Phosphorus - Total;			
		Nitrogen - Ammonia	Flow injection analyser (FIA)	In-house WK055A	
		Nitrogen - Total	Calculation	In-house WK062	
		Phosphorus - Ortho; Phosphorus - Reactive; Phosphorus - Total;	UV-vis spectrophotometry	WK067SP and WK071SP	
		Nitrogen - Ammonia	Ion selective electrode (ISE)	In-house WK055ISE	
		Nitrate; Nitrite; Nitrogen - Total oxidised;	Flow injection analyser (FIA)	In-house EK058A, EK057A, EK059A	
Analysis for physical and chemical characteristics	Sewage; Trade wastes;	Surfactants - Non-ionic	Titration	In-house WP041R	
	Industrial waters - Treated; Irrigation and stock waters; Saline waters; Sewage; Steam-raising waters; Trade wastes;	Sulfide	UV-vis spectrophotometry	In-house WK085VIS	
		Conductivity	Electrometric	In-house WA010	
		Fluoride	Ion selective electrode (ISE)	In-house WK040LL	
		Dissolved oxygen (DO)	Dissolved oxygen (DO) analyser	in-house WP025	
		Solids - Settleable	Volumetric	APHA 2540F	
		Chemical oxygen demand (COD)	UV-vis spectrophotometry	In-house WP026	
Analysis for physical and chemical characteristics	Industrial waters - Treated; Irrigation and stock waters; Saline	Chlorine - In-situ; Conductivity - In-situ; Dissolved oxygen (DO) - In-situ; pH - In-	Direct reading instrument	In-house EN067.2	



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	waters; Sewage; Steam-raising waters; Trade wastes;	situ; Temperature - In-situ; Turbidity - In-situ;			
Field analysis					
		Solids - Total suspended	Gravimetric	In-house WA025	
		Alkalinity	Titration	in-house WD037	
		Colour	UV-vis spectrophotometry	In-house EA040U & EA041U	
		pH	Direct reading instrument	In-house WA005	
		Chlorine	Titration	In-house WK010	
		Sodium adsorption ratio (SAR, sodium absorption ratio)	Calculation	In-house WA006	
		Dissolved oxygen (DO)	Ion selective electrode (ISE)	in-house EN67.2	
		Turbidity	Turbidometry	In-house WA045- 3	
		Oil and grease	Gravimetric	In-house WP020GE	
		Solids - Fixed; Solids - Volatile;	Gravimetric	In-house EA015A,B	
		Salinity	Electrochemical	In-house EA020EC	
		Biochemical oxygen demand (BOD)	Dissolved oxygen (DO) analyser	In-house WP030	
		Solids - Total	Gravimetric	in-house EA030	
		Anaerobic inhibition	Classical	In-house WA054	
		Hardness	Calculation	In-house EA063- 069	
		Solids - Total dissolved (TDS)	Calculation; Gravimetric;	In-house WA015 & WA016 (calculated)	
		Silica reactive	UV-vis spectrophotometry	In-house WD040UV	
	Industrial waters -	Ultraviolet absorbance;	UV-vis spectrophotometry	In-house EA043 & EA044	



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	Treated; Irrigation and stock waters; Saline waters; Steam-raising waters;	Ultraviolet transmittance;			
		Appearance	Visual examination	APHA 2110	
Sample collection	Saline waters	Not applicable	Grab	In-house EN67.9	
	Sewage	Not applicable	Grab	In-house EN67.1 & EN67.10	
	Industrial and steam-raising waters	Not applicable	Grab	In-house EN67.4, EN67.6, EN67.7, & EN67.10	
	Irrigation and stock waters	Not applicable	Grab	In-house EN67.4 & EN67.6	
	Trade wastes	Not applicable	Grab	In-house EN67.1, EN67.6 & EN67.10.	

### ISO/IEC 17025 (2017) Food and Beverage

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of physical and nutritional characteristics	Potable waters; Waters for potable and domestic purposes;	Nitrogen - Ammonia; Nitrogen - Total Kjeldahl (TKN); Phosphorus - Ortho; Phosphorus - Total;	Flow injection analyser (FIA)	In-house WK061A LL	
	Waters for potable and domestic purposes	Sodium adsorption ratio (SAR, sodium absorption ratio)	Calculation	In-house WA006	
		Conductivity	Electrometric	In-house WA010	
		Hardness	Calculation	In-house EA063-069	
		Colour	UV-vis spectrophotometry	In-house EA040U & EA041U	
		pH	Direct reading instrument	In-house WA005	
		Sulfide	UV-vis	In-house	



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			spectrophotometry	WK085VIS	
		Nitrogen - Ammonia	Flow injection analyser (FIA)	In-house WK055A	
		Solids - Total	Gravimetric	in-house EA030	
		Biochemical oxygen demand (BOD)	Dissolved oxygen (DO) analyser	In-house WP030	
		Chemical oxygen demand (COD)	UV-vis spectrophotometry	In-house WP026	
		Bromide; Chlorate; Chloride; Fluoride; Nitrate; Nitrite; Phosphate; Sulfate;	Ion chromatography (IC)	In-house WD013GE	
		Fluoride	Ion selective electrode (ISE)	In-house WK040LL	
		Appearance	Visual comparison	APHA 2110	
		Solids - Total suspended	Gravimetric	In-house WA025	
		Oil and grease	Gravimetric	In-house WP020GE	
		Turbidity	Turbidometry	In-house WA045-3	
		Salinity	Electrometric	In-house EA020EC	
		Nitrogen - Ammonia	Ion selective electrode (ISE)	In-house WK055ISE	
		Nitrogen - Total	Calculation	In-house WK062	
		Solids - Fixed; Solids - Volatile;	Gravimetric	EA015A,B	
		Nitrate; Nitrite; Nitrogen - Total oxidised;	Flow injection analyser (FIA)	In-house EK058A, EK057A, EK059A	
		Dissolved oxygen (DO)	Ion selective electrode (ISE)	in-house EN67.2	
		Dissolved oxygen (DO)	Dissolved oxygen (DO) analyser	in-house WP025	
Analysis of physical and nutritional characteristics	Waters for potable and domestic purposes	Chlorine - In-situ; Conductivity - In-situ; Dissolved oxygen (DO) -	Direct reading instrument	In-house EN067.2	



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		In-situ; pH - In-situ; Temperature - In-situ; Turbidity - In-situ;			
Field analysis					
		Ultraviolet absorbance; Ultraviolet transmittance;	UV-vis spectrophotometry	In-house EA043 & EA044	
		Nitrogen - Total Kjeldahl (TKN)	Ion selective electrode (ISE)	In-house WK061ISE	
		Nitrogen - Organic	Ion selective electrode (ISE)	In-house EK060	
		Solids - Settleable	Volumetric	APHA 2540F	
		Phosphorus - Ortho; Phosphorus - Reactive; Phosphorus - Total;	UV-vis spectrophotometry	In-house WK067SP and WK071SP	
		Solids - Total dissolved (TDS)	Calculation; Gravimetric;	In-house WA015 & WA016 (calculated)	
		Alkalinity	Titration	in-house WD037	
		Silica reactive	UV-vis spectrophotometry	In-house WD040UV	
		Anaerobic inhibition	Classical	In-house WA054	
		Chlorine	Titration	In-house WK010	
Sample collection	Waters for potable and domestic purposes	Not applicable	Grab	In-house EN67.5 and EN67.3	

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