



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

WATERLAB (PTY) LTD

Co. Reg. No.: 1983/009165/07

Facility Accreditation Number: T0391

is a South African National Accreditation System accredited facility
provided that all conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation,
Annexure "A", bearing the above accreditation number for

CHEMICAL AND MICROBIOLOGICAL ANALYSIS

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a
quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to
use the relevant accreditation symbol to issue facility reports and/or certificates



Mr M Phaloane
Acting Chief Executive Officer

Effective Date: 23 September 2023
Certificate Expires: 22 September 2028



ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0391**

Permanent Address of Laboratory:

Waterlab (Pty) Ltd
23B De Havilland Crescent
Persequor Techno Park
Meiring Naude Road
Pretoria

Technical Signatories:

Mr A van de Wetering (All Chemical Methods)
Ms E Nkabinde (All Chemical and Microbiological Methods)
Mr LJ Ngobeza (All Chemical Methods)
Ms DO Mohlaloga (All Microbiological Methods)
Ms MM Nkambule (All Microbiological Methods)
Ms E Botha (All Soil Methods)
Ms S Laubscher (All Soil Methods)
Mr JE Siebert (All Soil Methods)
Mr RC Niemand (All Soil Methods)
Mr AJ de Swart
(WLAB/015/ICP, WLAB/018/COD, WLAB/025/TKN, WLAB/060/TOC & WLAB/060/DOC methods only)
Ms TT Mbanjwa
(WLAB/005/Turbidity, WLAB/014/Flouride, WLAB/046/Discrete Analyser, WLAB/065/Robotic Titrosampler pH, Electrical Conductivity, Alkalinity, p-Alkalinity methods only)
Mr ML Mukosi (WLAB/014/Flouride, WLAB/046/Discrete Analyser, WLAB/034/Oil and grease, WLAB/060/TOC, WLAB/060/DOC & WLAB/005/Turbidity Methods only)
Ms MR Leotlela (WLAB/005/Turbidity & WLAB/50/ICP-MS Methods only)

Postal Address:

P O Box 283
Persequor Techno Park
Pretoria

Nominated Representative:

Ms DO Mohlaloga

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Issue No.: 14
Date of Issue: 26 February 2025
Expiry Date: 22 September 2028

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMICAL		
Water (Potable, Industrial, Sewage and Environmental)	Determination of Sulphate, Ammonia (free & saline), Nitrate, Nitrite, Ortho-phosphate, Chloride (Discrete Analyser) - Aquakem 250 & Gallery Plus	WLAB/046/Discrete Analyser/Method

Determination of ICP-OES elements: Na, K, Ca, Mg, Al, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn, V, B and Ba (ICP-OES Avio 200 & ICP-OES Optima 2100DV	WLAB/015/ICP/ Method
Determination of pH-Value @ 25°C (Potentiometric method)	WLAB/001/pH/ Method
Determination of Electrical Conductivity @ 25°C (Potentiometric method)	WLAB/002/E.C/Method
Determination of Total Alkalinity as CaCO ₃ (Titrimetric and Potentiometric method)	WLAB/007/T-Alk/ Method
Determination of Chemical Oxygen Demand (Open reflux method)	WLAB/018/COD/ Method
Determination of Fluoride (Ion selective electrode)	WLAB/014/Fluoride/Method
Turbidity determination (Turbidimetric method)	WLAB/005/Turbidity/Method
Determination of Total Acidity	WLAB/022/Acidity/ Methods
Determination of trace metals in water samples by ICP-MS elements - As, Cd, Hg, Pb, Sb, Se, U	WLAB/050/ICP-MS/ Method
Determination of Hexavalent Chromium	WLAB/046/Discrete Analyser/Hexavalent Chromium Method
Determination of pH, Electrical Conductivity, Alkalinity and p- Alkalinity	WLAB/065/Robotic Titrosampler pH, Electrical Conductivity, Alkalinity, p- Alkalinity/Method
Determination of Suspended Solids	WLAB/004/S.S/ Method
Determination of Total Dissolved Solids	WLAB/003/T.D.S/ Method
Determination of Total Phosphate	WLAB/031/Total - Phosphate/Method
Determination of Kjeldahl Nitrogen	WLAB/025/T.K.N/ Method
Determination of Colour	WLAB/006/Colour/ Method
Determination of Total Organic Carbon	WLAB/060/TOC/ Method

Soil	Determination of Dissolved Organic Carbon	WLAB/060/DOC/ Method
	Determination of Oil and Grease in Water Samples	WLAB/034/Oil & grease/Method
	Determination of ABA	WLAB/078/Acid base Accounting/Method
	TCLP Leachate	WLAB/076/TCLP Leaching
	DW Leachate	WLAB/075/Distilled water/Method
	Determination of Paste pH	WLAB/077/Paste pH/Method
Calculations:		
	Total Dissolved Solids (EC in mS/m x 6.7)	WLAB 003
	Carbon Dioxide as CO ₂	WLAB 022
	Hydroxide Alkalinity as CaCO ₃	WLAB 023
	Hydroxide as OH	WLAB 023
	Carbonate Alkalinity as CaCO ₃	WLAB 023
	Carbonate as CO ₃	WLAB 023
	Bicarbonate Alkalinity as CaCO ₃	WLAB 023
	Bicarbonate as HCO ₃	WLAB 023
	Acid Potential (AP)	WLAB 030
	Nett Neutralization Potential (NNP)	WLAB 030
	Neutralising Potential Ratio (NPR) (NP:AP)	WLAB 030
	Neutralization Potential (NP)	WLAB 030
	Unionised Ammonia as N	WLAB 046
	Unionised Ammonia as NH ₃	WLAB 046
	Ammonium as N	WLAB 046
	Ammonium as NH ₄	WLAB 046
	Combined Nitrate plus Nitrite	WLAB 046
	Total Oxidized Nitrogen (TON)	WLAB 046
	Total Inorganic Nitrogen (TIN)	WLAB 046
	Converting Orthophosphate as P to PO ₄	WLAB 046
	Converting Nitrite as N to NO ₂	WLAB 046
	Converting Nitrate as N to NO ₃	WLAB 046
	Magnesium hardness as CaCO ₃	WLAB 051
	Calcium hardness as CaCO ₃	WLAB 051

Sodium Adsorption Ratio (SAR)	WLAB 052
Precipitation Potential as CaCO_3	WLAB 053
pHs	WLAB 053
Langelier Index	WLAB 053
Ryznar Index	WLAB 053
Corrosivity index	WLAB 054
Dustfall out (Soluble, Insoluble, Total & Rate)	WLAB 057

MICROBIOLOGY

Water (Potable, Industrial, Sewage and Environmental)	Enumeration of Total coliform bacteria Colilert-18	WLAB/021b/Total coliform Method
	Enumeration of <i>Escherichia coli</i> Colilert- 18	WLAB/021b/ E.coli Method
	Enumeration of <i>Escherichia coli</i> -colilert-18	WLAB/021c/ E.coli Methods
	Enumeration of Faecal Coliforms-Colilert-18	WLAB/021c/ Faecal Coliform Methods
	Heterotrophic Plate Count	WLAB/021a/Heterotrophic plate count/Method

Original Date of Accreditation: 23 September 2008

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM


 Accreditation Manager