# **CERTIFICATE OF ACCREDITATION**

#### WATER UTILITIES CORPORATION – MMAMASHIA LABORATORY

Established by Act of Parliament in 1970 CAP 74:02

#### Facility Accreditation Number: TEST-5 0009

is a SADCAS accredited Testing Laboratory provided that all SADCAS conditions are complied with

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

#### **CHEMICAL ANALYSIS**

The facility is accredited in accordance with the recognized International Standard

### ISO/IEC 17025:2017

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

SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and SADCAS serves as the basis for the recognition of SADCAS by SADC Member States as a multi-economy accreditation body

> Eve Christine Gadzikwa SADCAS Chief Executive Officer

Date of Renewal of Accreditation:14 July 2023Effective Date (Issue No: 1):14 July 2023Certificate Expires:13 July 2028



## ANNEXURE A

### SCHEDULE OF ACCREDITATION

#### **CHEMICAL ANALYSIS**

# Laboratory Accreditation Number: TEST-5 0009 (ISO/IEC 17025:2017)

Permanent Address of Laboratory Water Utilities Corporation Mmamashia Water Treatment Works Off Gaborone - Francistown Road 1.8 Km opposite Oodi Road Turn Off Mmamashia, Gaborone Botswana		Technical Signatories   Ms E A Mudanga WUC/CTM/004)   Mr G Ditsie (WUC/CTM/002, 004, 005, 011 & 029)   Mr M B Gaefole (WUC/CTM/002, 004, 011, 029)   Ms T O Pilane (WUC/CTM/002, 005, 011 & 029)   Mr O Gabanapelo (WUC/CTM/002, 011, 014, 029 & 036)   Mr O Onalenna (WUC/CTM/002, 011 & 014)   Ms K B Madisa (WUC/CTM/002, 011 & 014)   Mr T Rabantheng (WUC/CTM/014)	
<u>Postal Address</u> Private Bag 00276 Gaborone Botswana		Nominated Representative	: Mr N G Selalame
Tel : +267 360 4400 / 4401   Cell : +267 739 703 02/714 198 74   Email : NSelalame@WUC.BW		<u>Issue No</u> <u>Date of Issue</u> <u>Expiry Date</u>	: 01 : 14 July 2023 : 13 July 2028
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT		STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Drinking Water	Determination of: Aluminium, Lead, Copper, Zinc, Chromium Nickel, Cadmium, Cobalt, Calcium, Magnesium, Potassium, Sodium, Iron, Manganese Determination of: Fluoride, Chloride, Nitrite, Bromide, Sulphate, Nitrate, Phosphate, Ammonium		ICP-OES (Perkin Elmer); WUC/CTM/004
			Dionex ICS-3000; WUC/CTM/005
Surface water, Ground Water, Drinking Water & Wastewater	Conductivity		Crison GLP 31+; WUC/CTM/002
	Total Dissolved Solids		Crison GLP 31+; WUC/CTM/002
	рН		HACH SensION + pH3; WUC/CTM/011
Surface water, Ground Water, Drinking Water	Turbidity		Hanna HI 88703; WUC/CTM/029

Original date of accreditation: 02 August 2013



# ANNEXURE A

Laboratory Accreditation No: TEST-5 0009 (ISO/IEC 17025:2017) Issue No: 01 Date of Issue: 14 July 2023 Date of Expiry: 13 July 2028

MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Wastewater	Determination of COD	Macherey-Nagel Test Kits; WUC/CTM/014
	Determination of Aluminium, Arsenic, Lead, Barium, Beryllium, Cadmium, Cobalt, Chromium, Copper, Iron, Manganese, Nickel, Selenium, Strontium, Vanadium, Zinc, Calcium, Potassium, Sodium, Magnesium Boron, Molybdenum and Lithium	ICP-OES (Analytik Jena); WUC/CTM/036

Original date of accreditation: 02 August 2013

Page 2 of 2

Pinkie Malebe SADCAS Technical Manager