



UGANDA NATIONAL BUREAU OF STANDARDS

CERTIFICATE OF LABORATORY RECOGNITION

Certificate No: UNBS/LRS/0045

This certificate is valid as per the scope stated in the accompanying schedule of recognition, Annex "A" which is an integral part of the present certificate bearing the above recognition number for

Physicochemical Testing of Potable Water & Waste Water

In accordance with the recognised International Standard **ISO/IEC 17025:2017**

Being supplied to

WHITE NILE CONSULTS LIMITED

Plot 134, Block 2, Hohwa Village, Kaseeta Parish, Kabwoya Subcounty, Buhanguzi County, Kikuube District,
P. O. Box 9421, Kampala Uganda.

The recognition demonstrates technical competence and the operation of a laboratory quality management system to perform the tests as described in the Annex. While this certificate remains valid, the recognised laboratory above is authorised to use the relevant UNBS recognition number to issue facility reports and /or certificates.

Recognition Decision Date: 2025-12-09
Date of original issue: 2025-12-09
Certificate Issue No: 01

Effective Date: 2025-12-09
Expiry date: 2028-12-08
Certificate Issue date: 2025-12-09

Management Signatory

UGANDA NATIONAL BUREAU OF STANDARDS



ANNEX A

SCHEDULE OF RECOGNITION – TESTING LABORATORIES

Facility Number	UNBS/LRS/0045	S/N	Technical Signatories	Method
WHITE NILE CONSULTS LIMITED KIKUUBE DISTRICT BUHANGUZI COUNTY, KABWOYA SUB COUNTY, PLOT 134, BLOCK 2, HOHWA VILLAGE, KASEETA PARISH		1.	Tugume Wilson	-Color, Chemical Oxygen Demand (COD), PH, Total Dissolved Solids (TDS), Conductivity, Total Suspended Solids (TSS), Turbidity, Phosphate, Nitrate, Ammonia and Temperature in Wastewater. -Color, PH, Total Dissolved Solids (TDS), Conductivity, Total Suspended Solids (TSS), Turbidity, Phosphate, Nitrate, Nitrite, Ammonia and Total Hardness in Potable water.
		2.	Magezi Amisi	-Color, Chemical Oxygen Demand (COD), PH, Total Dissolved Solids (TDS), Conductivity, Total Suspended Solids (TSS), Turbidity, Phosphate, Nitrate, Ammonia and Temperature in Wastewater. -Color, PH, Total Dissolved Solids (TDS), Conductivity, Total Suspended Solids (TSS), Turbidity, Phosphate, Nitrate, Nitrite, Ammonia and Total Hardness in Potable water.
Material or products tested	Type of tests/property measured, Range of Measurement	Standard specifications, Techniques/Equipment used		
TESTING FIELD - MICROBIOLOGY				

TESTING FIELD - CHEMISTRY		
Waste Water		50TCU Max. Techniques Spectrophotometric technique, Platinum-Cobalt Standard Hach Method 8025, 10/2014, Edition 10 adopted from standard methods for examination of water and wastewater. Equipment Aspirator, vacuum pump, DR 3900 HACH spectrophotometer, filter paper
	Color	70 mg/l Max Technique Spectrophotometric technique USEPA Approved (5220 D) Reactor Digestion Method, HACH test instructions (method 8000, Edition 10, 05/2019, Equipment DR3900 Hach Spectrophotometer, Blender, DRB200 Reactor, Pipet, adjustable volume, COD TNTplus® Reagent Set, HR, 20 to 1500 mg/L COD, COD TNTplus® Reagent Set, LR, 3 to 150 mg/L COD
	Chemical Oxygen Demand (COD)	5.0-8.5 Technique -pH Electrode technique, method ISO 10523 Equipment -Benchtop pH meter LAQUA-PC1500, Beaker, Deionized water.
	pH	-700mg/l Max. for treated potable water, 1500mg/l Max. for natural potable Technique -Gravimetric analysis, 2540 C Standard method for the examination of water and wastewater Equipment Apparatus includes analytical balance, heating oven, What man filter paper, and filtration apparatus.
	Total Dissolved Solids	

	1000 μ S/cm Max Technique - Potentiometric/electrode technique Standard Methods for the Examination of Water and Waste Water Equipment -Conductivity meter, plastic bottles, distilled water.
Conductivity	
Total Suspended Solids	50 mg/l Max Technique -Gravimetric Technique, 2540 D standard method for the examination of water and wastewater Equipment Apparatus includes analytical balance, heating oven, What man filter paper, and filtration apparatus.
Turbidity	300NTU Max Technique Turbidimetry Techniques Equipment -Hach TU5200 Turbidity meter, cuvettes.
Phosphate	5 mg/l Max Technique -Spectrophotometric technique Ascorbic Acid Hach Method 10209/10210, 05/2022, Edition 14 Equipment DR 3900 hach Spectrophotometer, DRB 200 Reactor.
Nitrate	10 mg/l Max Technique Spectrophotometric technique. Hach Dimethyl phenol Method 10206, 04/2021, Edition 12 USEPA approved for water and wastewater analysis Equipment DR3900 Hach Spectrophotometer Pipet, adjustable volume, Pipet tips
Ammonia	10 mg/l Max Technique Spectrophotometric technique Salicylate Method Hach testing instructions method 10031, 09/2015, Edition 10 Equipment DR3900 Hach Spectrophotometer, Funnel, TenSette pipet, Pipet tips

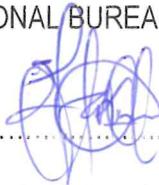
	Temperature	<p>200c-350c</p> <p>Technique Thermometry, Standard method 2550 B</p> <p>Equipment Thermometer, Beakers, Deionized water</p>
Potable Water	Color	<p>- 15 TCU Max. for treated potable water, 50TCU Max. for natural potable water</p> <p>Techniques Spectrophotometric technique, Platinum-Cobalt Standard Hach Method 8025, 10/2014, Edition 10 adopted from standard methods for examination of water and wastewater.</p> <p>Equipment Aspirator, vacuum pump, DR 3900 HACH spectrophotometer, filter paper</p>
	Chemical Oxygen Demand (COD)	<p>-6.5-8.5 for treated potable water, -5.5-9.5 for natural potable water</p> <p>Technique -pH Electrode technique, method ISO 10523</p> <p>Equipment -Benchtop pH/ORP/Conductivity meter LAQUA-PC1500, Beaker.</p>
	pH	<p>-6.5-8.5 for treated potable water, -5.5-9.5 for natural potable water</p> <p>Technique -pH Electrode technique, method ISO 10523</p> <p>Equipment -Benchtop pH/ORP/Conductivity meter LAQUA-PC1500, Beaker.</p>
	Total Dissolved Solids	<p>-700mg/l Max. for treated potable water, 1500mg/l Max. for natural potable</p> <p>Technique -Gravimetric analysis, 2540 C</p> <p>Standard method for the examination of water and wastewater</p> <p>Equipment Apparatus includes analytical balance, heating oven, What man filter paper, and filtration apparatus.</p>
	Conductivity	<p>-1500 μS/cm Max. for treated potable water, 2500μS/cm Max. for natural potable water</p> <p>Technique - Potentiometric/electrode technique Standard Methods for the Examination of Water and Waste Water</p>

		Equipment -Conductivity meter, plastic bottles, distilled water.
		Not detectable
Total Suspended Solids		Technique -Gravimetric Technique, 2540 D standard method for the examination of water and wastewater Equipment Apparatus includes analytical balance, heating oven, What man filter paper, and filtration apparatus.
Turbidity		5NTU Max. for treated potable water, 25 NTU Max. for natural potable water Technique Nephelometric Techniques Equipment -Hach TU5200 Turbidity meter, cuvettes.
Total Hardness		-300mg/l Max. CaCO ₃ for treated potable water, 600mg/l Max CaCO ₃ for natural potable water Technique -EDTA Titrimetric technique Equipment/Apparatus Burette, Clamp, Reagents, Conical flasks, Measuring cylinder and Pipette
Phosphate		2.2 mg/l Max Technique -Spectrophotometric technique Ascorbic Acid Hach Method 10209/10210, 05/2022, Edition 14 Equipment DR 3900 hach Spectrophotometer, DRB 200 Reactor.
Nitrate		45 mg/l Max. Technique Spectrophotometric technique. Hach Dimethyl phenol Method 10206, 04/2021, Edition 12 USEPA approved for water and wastewater analysis Equipment DR3900 Hach Spectrophotometer Pipet, adjustable volume, Pipet tips
Nitrite		0.003 mg/l Max. Technique -Spectrophotometric technique USEPA Diazotization method, 08/2019, Edition 11

		Equipment DR 3900 hach Spectrophotometer, Analytical balance, Deionized water.
		0.5 mg/l Max
		Technique Spectrophotometric technique Salicylate Method Hach testing instructions method 10031, 09/2015, Edition 10
	Ammonia	Equipment DR3900 Hach Spectrophotometer, Funnel, TenSette pipet, Pipet tips.

ISSUED BY

UGANDA NATIONAL BUREAU OF STANDARDS



MANAGER CERTIFICATION DEPARTMENT