



ISO/IEC 17025  
ACCREDITED  
TESTING  
N° 001

# Water Services Corporation

## Scope of Accreditation

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### ACCREDITATION INFORMATION - TESTING LABORATORY

<b>Accreditation No.</b>	001
<b>Accreditation Certificate No.</b>	001/21
<b>Accredited according to</b>	EN ISO/IEC 17025:2017
<b>Accreditation Scope No.</b>	S001/21
<b>Date of issue of this Scope</b>	Friday, 24 March 2023

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### TESTING LABORATORY

#### Laboratory Locations

Location Details	Activity	Location Code
<b>Address</b> W.S.C., Qormi Road, Luqa LQA9043	Chemical and Microbiological Testing of Waters	A

#### Site activities performed away from the locations listed above

Location Details	Activity	Location Code
Water Treatment Works, Desalination Plant, Reservoirs, Boreholes, Domestic and Industrial Premises, Sewage Treatment Plants, Sewage Networks, Seawater wells, Water Tanks, Recreational waters and similar locations.	Sampling for subsequent chemical and microbiological testing On-site testing	B

**NAB-Malta is a signatory for the EA MLA in testing, calibration and inspection**

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Material/ Product/ Matrix Tested	Type of test, parameter/ component/ characteristic measured, range of measurement, equipment	Standard Specifications/ In-House Methods /Techniques	Loc. code
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### Chemistry

WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises	Determination of Colour	In-house method: SOP/C/0053 (using comparator)	A
Waste waters, industrial waters, effluents, treated water, processed water, purified water	Determination of Total Organic Carbon	In-house method: SOP/C/WW023 (using persulfate oxidation method)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of Sodium	In-house method: SOP/C/AAS001 (using atomic absorption spectrophotometry)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of total nitrogen	In-house method: SOP/C/057 (using TN analyzer)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of Bromates	In-house method: SOP/C/051 (using High Pressure Ion Chromatography)	A



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Waste waters, industrial waters, effluents, treated water, processed water, purified water	Determination of Biological Oxygen Demand	In-house method: SOP/C/WW022 (using dissolved oxygen meter) Based on Standard Method 5210 B- APHA, AWWA, WEF (Vol 23, 2017)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, wastewaters and effluents	Sampling for Chemical analysis	In-house method: SOP/C/001 Based on Standard Method 1060B- APHA, AWWA, WEF (Vol 23, 2017)	B
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of pH	In-house method: SOP/C/003, SOP/C/034, SOP/C/049, SOP/C/054, SOP/C/055 (using pH meters)	A/ B
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and sea waters, wastewater and effluent	Determination of conductivity	In-house method: SOP/C/047, SOP/C/048, SOP/C/056, SOP/C/054 (using electrometric instruments technique)	A/ B
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and effluent	Determination of total alkalinity	In-house method: SOP/C/007 (Titrimetric) Based on Standard Method 2320 B- APHA, AWWA, WEF (Vol 23, 2017)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Detection of ammonia	In-house method: SOP/C/008 (spot test)	A



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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of Nitrite	In-house method: SOP/C/009 (spot test)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Detection of Phosphate	In-house method: SOP/C/010 (spot test)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, wastewater and effluents	Determination of turbidity	In-house method: SOP/C/011B, SOP/C/038, SOP/C/011C, SOP/C/054 (by nephelometry meter), SOP/C/WW014A, Based on Standard Method 2130- APHA, AWWA, WEF (Vol 23, 2017)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and effluent	Determination of total hardness	In-house method: SOP/C/014 (Titrimetric) Based on Standard Method 2340 C- APHA, AWWA, WEF (Vol 23, 2017)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and effluent	Determination of calcium or calcium hardness	In-house method: SOP/C/015 (Titrimetric) Based on Standard Method 2340 C- APHA, AWWA, WEF (Vol 23, 2017)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of magnesium or magnesium hardness	In-house method: SOP/C/016 (Calculation) Based on Standard Method 2340 C- APHA, AWWA, WEF (Vol 23, 2017)	A	



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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of Total suspended solids	In-house method: SOP/C/017C (Calculation) Based on Standard Method 2540 B,C- APHA, AWWA, WEF (Vol 23, 2017)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of Free Carbon Dioxide	In-house method: SOP/C/018 (nomographic)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of LSI – Langelier Saturation Index	In-house method: SOP/C/029 (by calculation)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, wastewater and effluent	Determination of Temperature	In-house method: SOP/C/031	A/ B
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Total Dissolved Solids	In-house method: SOP/C/047B, SOP/C/054, SOP/C/058 (conversion from conductivity by meter)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Arsenic (7.23 - 1000µg/L)	In-house method: SOP/C/061	A





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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Beryllium (0.76 - 500µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Boron (13.13 - 2000µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Cadmium (1.7 - 500µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Chromium (3.55 - 500µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Cobalt (1.56-1000µg/L)	In-house method: SOP/C/061		A



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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Copper (8.9-2000µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Iron (9.86-1000µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Lead (10.11-500µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Nickel (3.02-500µg/L)	In-house method: SOP/C/061		A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Selenium (9.94-1000µg/L)	In-house method: SOP/C/061		A



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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Vanadium (2.79 - 1000µg/L)	In-house:method: SOP/C/061	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Zinc (23.22 - 1000µg/L)	In-house method: SOP/C/061	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents, Polished waters	Determination of Chlorates (6.24 - 300µg/L)	In-house method: SOP/C/062	A
Potable, process water, groundwater	Determination of Potassium (0-8 mg/L)	SOP/C/AAS002 (Atomic Absorption Spectrophotometer)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of Nitrate	In-house method: SOP/C/UV001C (using UV Spectrophotometry)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, Waste Water and effluents	Determination of Ammonia	In-house method: SOP/C/UV002A, SOP/C/UV002B, SOP/C/UV002D (using UV Spectrophotometry)	A





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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, Waste Water and effluents	Determination of Nitrites	In-house method: SOP/C/UV003A, SOP/C/UV003B, SOP/C/UV003D (using UV Spectrophotometry)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluent	Determination of Boron	In-house method: SOP/C/UV004 (using UV Spectrophotometry)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water and treated effluents	Determination of Sulphates	In-house method: SOP/C/UV007 (using UV spectrometry)	A
Potable, groundwater	Determination of Fluorides (0-1.5 mg/L)	SOP/C/UV009 (UV-VIS Spectrophotometry)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water	Determination of Fluorides (0-1.0 mg/L)	In-house method: SOP/C/UV059 (using HPIC)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of Chloride	In-house method: SOP/C/MW003, SOP/C/013 (Titrimetric) Based on Standard Method 4500-Cl-B- APHA, AWWA, WEF (Vol 23, 2017)	A



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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of chlorine (free and total)	In-housing method: SOP/C/WW005 (using colorimetry), SOP/C/006 (using colorimetry)	A/ B	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of nitrates	In-house method: SOP/C/WW007 (using distillation and titrimetry)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of total solids	In-house method: SOP/C/WW008, SOP/C/017A (Gravimetric) Based on Standard Method 2540 B- APHA, AWWA, WEF (Vol 23, 2017)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of total dissolved solids	In-house method: SOP/C/017B (Gravimetric) Based on Standard Method 2540C- APHA, AWWA, WEF (Vol 23, 2017)	A	
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of total suspended solids	In-house method: SOP/C/WW010 (Gravimetric) Based on Standard Method 2540D- APHA, AWWA, WEF (Vol 23 , 2017)	A	



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WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of Volatile solids	In-house method: SOP/C/WW011 (Gravimetric) Based on Standard Method 2540E- APHA, AWWA, WEF (Vol 23 , 2017)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Determination of settleable solids	In-house method: SOP/C/WW012 (Gravimetric) Based on Standard Method 2540F- APHA, AWWA, WEF (Vol 23, 2017)	A
WATERS, treated and untreated from: Water Treatment Works, Desalination Plants, Reservoirs, Ground waters, Domestic and Industrial Premises, Runoff water, waste waters and effluents	Gravimetric Method for the Quantification of Oils and Greases	In-house method: SOP/C/WW015 (Extraction + Gravimetric) Based on Standard method 5520 B- APHA, AWWA, WEF (Vol 23, 2017)	A
Raw, treated effluent, process water	Determination of Chemical Oxygen Demand	SOP/C/WW018A,B (Closed acid digestion and titrimetric) SOP/C/WW018D (Closed acid reflux using microwave digestion)	A

### Microbiology


WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater	Total Bacterial Counts	ISO 6222:1999	A
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Potable, environmental water, ground water, process water	Detection and enumeration of Pseudomonas aeruginosa – method by membrane filtration	EN ISO 16266:2006	A	
WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater	Total coliforms and E.coli	ISO 9308-1:2014/Amd 1:2016	A	
WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackishwater	Faecal Enterococci	ISO 7899-2: 2000	A	
WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, wastewaters, effluents and polished bottled water, pools, spa, recreational and seawater, brackish water	Detection and enumeration of Legionella	ISO 11731:2017, (Matrix A, B Procedure 7, 8, 9 & 10)	A	
WATERS, treated and untreated from water treatment works, desalination plants, reservoirs, groundwater, domestic and industrial premises, runoff water, effluents and polished bottled water, pools, spa and recreational water	Sampling for Microbiological analysis (including sampling for Legionella)	Documented In-House Methods: SOP/C/001 based on Standard Method APHA, AWWA, WEF (Vol 23, 2017)	B	

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**END OF SCOPE**

This scope of accreditation may be revised from time to time by NAB-MALTA. The most recent version of this scope may be found from the NAB-MALTA website. Nevertheless, as technical issues may hinder the immediate update of the website, and in case of any difficulty, contact the NAB-MALTA on +356 23952510 or by sending an email to 'info@nabmalta.org.mt'.

