



Accreditation Unit

Annex (1)

To The Accreditation Certificate No. **JAS Test - 053** Dated **05/11/2025**

Water Laboratory – Environment, Water and Food Laboratories Division / Royal Scientific
Society / Amman

Scope of Accreditation

Testing of Chemical Parameters in Drinking Water and Wastewater

Tested Parameter/ Type of Test/ Measured Quantity	Test Methods/ Standards
pH	Standard Methods for Examination of Water and Wastewater, 4500-H ⁺ B: 2021 (Book 24 th Edition:2023) (0-14 pH)
Total Dissolved Solids	Standard Methods for Examination of Water and Wastewater, 2540 C: 2020 (Book 24 th Edition:2023) >10 mg/L
Total Suspended Solids	Standard Methods for Examination of Water and Wastewater, 2540 D: 2020 (Book 24 th Edition:2023) >2 mg/L
Electrical Conductivity, at 25°C	Standard Methods for Examination of Water and Wastewater, 2510 B: 2021 (Book 24 th Edition:2023) (1 – 108500 µS/cm)
Color	Standard Methods for Examination of Water and Wastewater, 2120 B: 2021 (Book 24 th Edition:2023) > 5 PCU
Turbidity	Standard Methods for Examination of Water and Wastewater, 2130 B: 2020 (Book 24 th Edition:2023) >0.04 (NTU)
Fluoride	Standard Methods for Examination of Water and Wastewater, 4500 F C: 2021 (Book 24 th Edition:2023) >0.04 mg/L
Chloride	Standard Methods for Examination of Water and Wastewater, 4500 Cl D: 2021 (Book 24 th Edition:2023) >2.1 mg/L
Nitrite	Standard Methods for Examination of Water and Wastewater, 4500 NO ₂ B: 2021 (Book 24 th Edition:2023) >0.003 mg/L
Ammonia	Standard Methods for Examination of Water and Wastewater, 4500 NH ₃ B and C: 2021 (Book 24 th Edition:2023) >2.8 mg/L
Phosphate	Standard Methods for Examination of Water and Wastewater, 4500 P C: 2021 (Book 24 th Edition:2023) >0.2 mg/L
Total Phosphorus	Standard Methods for Examination of Water and Wastewater, 4500 P C: 2021 (Book 24 th Edition:2023) >0.1 mg/L
Total kjeldahl Nitrogen	Standard Methods for Examination of Water and Wastewater, 4500 N _{org} B: 2021 (Book 24 th Edition:2023) >3.2 mg/L
Chemical Oxygen Demand (COD)	Standard Methods for Examination of Water and Wastewater, 5220 B: 2022 (Book 24 th Edition:2023) >5 mg/L
Cyanide	Standard Methods for Examination of Water and Wastewater, 4500 CN F: 2021 (Book 24 th Edition:2023) >0.04 mg/L
Alkalinity (HCO ₃ /CO ₃)	Standard Methods for Examination of Water and Wastewater, 2320 B, 2021 (Book 24 th Edition:2023) >3 mg/L
Calcium	Standard Operating Procedure SOP No. 71/02/03/03/21 [Issue No.: (1); Date:26/05/2021, Revision No.: (2); Date: 10/07/2023] - Complexometric Titration with Potentiometric Measurement in Water and Wastewater >2 mg/L
Magnesium	Standard Operating Procedure SOP No. 71/02/03/03/21 [Issue No.: (1); Date:26/05/2021, Revision No.: (2); Date: 10/07/2023] - Complexometric Titration with Potentiometric Measurement in Water and Wastewater >2 mg/L



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Total Hardness (TH)	▪ Standard Operating Procedure SOP No. 71/02/03/03/21 [Issue No.: (1); Date:26/05/2021, Revision No.: (2); Date: 10/07/2023] - Complexometric Titration with Potentiometric Measurement in Water and Wastewater >5 mg/L
Sulfate (SO ₄)	▪ Standard Methods for the Examination of Water and Wastewater; SM 4500-SO ₄ E: 2021 (Book 24 th Edition:2023) using HACH DR 3900 > 4 mg/L
Total organic carbon (TOC)	▪ Standard Methods for Examination of Water and Wastewater, SM 5310 B: 2022 (Book 24 th Edition:2023) >0.5 mg/L
Total Nitrogen (TN)	▪ Standard Methods for the Examination of Water and Wastewater; SM 4500-N E: 2021 (Book 24 th Edition:2023) >0.5 mg/L
Ammonia (NH ₃ , NH ₄ , as N)	▪ Standard Methods for the Examination of Water and Wastewater; SM 4500 NH ₃ D: 2021 (Book 24 th Edition:2023) >0.08 mg/L

List of employees in the laboratory who are technically responsible for issuing the test reports in the scope of accreditation:

- 1- Manal Al-Khamaiseh; Manager of Environment, Water & Food Laboratories
- 2- Abdallah Obaidat; Lab Head
- 3- Eng. Fadwa Abu Rumman; Senior Specialist