

Accreditation Scope

AL MUBTAKAR LABORATORY, NAL 142
Testing Laboratory, (ISO/IEC 17025:2017)

M14, Musaffah, Abu Dhabi, UAE

Issue Date: 27-07-2021

Expiry Date: 08-02-2023

Issue No: 05

Testing Field	Materials/ Products tested	Type of test/ Test parameter/Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
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Chemical	Water/Waste Water	pH 1 to 14 pH units	APHA 4500 H ⁺ B:2017, 23 rd edition	P
		Conductivity >1μS/Cm	APHA 2510B:2017, 23 rd edition	
		Turbidity >0.05 NTU	APHA 2130B:2017, 23 rd edition	
		Total Dissolved Solids (TDS) >1 mg/L	APHA 2540C:2017, 23 rd edition	
		Total Suspended Solids (TSS) >1 mg/L	APHA 2540D:2017, 23 rd edition	
		Alkalinity mg CaCO ₃ /L >2 mg/L	APHA 2320B:2017, 23 rd edition	
		Carbonate Alkalinity as CaCO ₃ >2 mg/L	APHA 2320B:2017, 23 rd edition	
		Bicarbonate alkalinity as CaCO ₃ >2 mg/L	APHA 2320B:2017, 23 rd edition	
		Hardness by Calculation (mg equivalent CaCO ₃ /L) >2 mg/L	APHA 2340B:2017, 23 rd edition	
		Calcium hardness as CaCO ₃ as CaCO ₃ /L >2 mg/L	M-SOP-27 Version 01 Rev 0 dated 12/11/2019	

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Chemical	Water/Waste Water	Calcium (Ca) >0.03 mg/L	APHA 3120B(Analysis) and APHA 3030E(Digestion):2017, 23 rd edition	P
		Magnesium (Mg) >0.003 mg/L		
		Iron (Fe) >0.002 mg/L		
		Sodium (Na) >0.4 mg/L		
		Potassium (K) >0.1mg/L		
		Chromium (Cr) >0.003 mg/L		
		Cadmium (Cd) >0.002 mg/L		
		Nickel (Ni) >0.002 mg/L		
		Zinc (Zn) >0.004 mg/L		
		Lead (Pb) >0.004 mg/L		
		Copper (Cu) >0.002 mg/L		
		Manganese (Mn) >0.002 mg/L		

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Chemical	Water/Waste Water	Chloride >0.1mg/L	APHA 4500Cl B:2017, 23 rd edition	P
		Sulphates as SO ₄ ²⁻ >2.0mg/L	HACH 8051, 10/2019 Edition 11	
		Fluoride >0.02mg/L	HACH 8029, 08/2018 Edition 10	
		Nitrate >0.1mg/L	HACH 8171, 01/2014 Edition 9	
		Nitrite >0.002mg/L	HACH 8507, 08/2019 Edition 11	
		Free Chlorine >0.02mg/L	HACH 8021, 01/2014 Edition 9	
Microbiological	Water/Waste Water	Heterotrophic plate count >1CFU/ml	APHA 9215B:2017, 23 rd edition	P
		Enumeration of Total Coliforms >1CFU/100ml	APHA 9222B:2017, 23 rd edition	
		Enumeration of Fecal Coliforms >1CFU/100ml	APHA 9222B & APHA 9221E:2017, 23 rd edition	

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Microbiological	Water/Waste Water	Enumeration of E. coli >1CFU/100ml	APHA 9222B & APHA 9221F:2017, 23rd edition	P
		Enumeration of Pseudomonas aeruginosa >1/100ml	APHA 9213E:2017, 23 rd edition	
		Enumeration of Enterococci >1 Presumptive Enterococci/100ml	APHA 9230C:2017, 23 rd edition	
	Water (Matrix A & B)	Detection and Enumeration of Legionella (>1CFU/L)	ISO 11731:2017 Matrix A Procedure 5, 7 Matrix B Procedure 8,9,10	
END				