



Accreditation Scope

Al Saad Laboratory - Al Ain Laboratory Section, Operations & Maintenance
Division - Abu Dhabi Sewerage Services Company, NAL 178
Testing Laboratory, (ISO/IEC 17025:2017)

Al Saad, Al Ain - Abu Dhabi, UAE

Issue Date: 06-04-2022

Expiry Date: 05-04-2025

Issue No: 01

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)
Physical	Waste water	Electrical Conductivity 2 to 100,000 μ S/cm	APHA 2510 B 23 rd Edition:2017	P
		Total Suspended Solids 1.55 -10000 mg/l	APHA 2540 D 23 rd Edition: 2017	P
Chemical	Waste water	pH 1 to 14 pH units	APHA 4500 H ⁺ B 23 rd Edition:2017	P
		Total Dissolved Solids 25 – 4000 mg/l	APHA 2540 C 23 rd Edition:2017	P
		Chemical Oxygen Demand (COD) 15.0 to 3000 mg/l	APHA 5220 D 23 rd Edition:2017	P
		Biochemical Oxygen Demand (BOD) 2.2 – 2000 mg/l	APHA 5210 B 23 rd Edition:2017	P
		Total Alkalinity and Bicarbonate Alkalinity 1.0 - 500 mg/l	APHA 2320 B 23 rd Edition:2017	P
		Chloride 3.1– 2000 mg/l	APHA 4500 Cl B 23 rd Edition:2017	P
		Sulphate 2.8 -1000 mg/l	APHA 4500 SO ₄ C 23 rd Edition:2017 & SOP- 030-S Rev 04, Dec 2021	P
		Phosphorus (Total) 0.02 to 30 mg/l	APHA 4500 P E 23 rd Edition:2017	P
Ammonia Nitrogen 0.05 to 200 mg/l	APHA 4500 NH ₃ D 23 rd Edition:2017	P		



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Chemical	Waste water	Aluminium 0.009 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion US EPA -3015A: 2007	P
		Barium 0.003 -5000 mg/l		
		Beryllium 0.006 – 1000 mg/l		
		Boron 0.009 – 10000 mg/l		
		Cadmium 0.005 – 2000 mg/l		
		Chromium 0.003 – 5000 mg/l		
		Cobalt 0.005 – 2000 mg/l		
		Copper 0.008 – 5000 mg/l		
		Iron 0.008 – 10000 mg/l		
		Lead 0.005 – 10000 mg/l		
		Lithium 0.012 – 5000 mg/l		
Manganese 0.005 – 1000 mg/l				
Chemical	Waste water	Molybdenum 0.009 -5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion US EPA -3015A: 2007	P
		Nickel 0.006 – 5000 mg/l		



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		Vanadium 0.015 – 5000 mg/l		P
		Zinc 0.006 – 5000 mg/l		
		Calcium 0.17 -20000 mg/l		
		Magnesium 0.53- 20000 mg/l		
		Potassium 0.51-20000 mg/l		
		Sodium 0.19-20000 mg/l		
		Mercury 0.0003 – 20 mg/l		
Physical	Recycled water	Turbidity 0.3 to 400 NTU	APHA 2130 B 23 rd Edition:2017	P
		Electrical Conductivity 2 to 100,000 μ S/cm	APHA 2510 B 23 rd Edition:2017	P
		Total Suspended Solids 1.55 -10000 mg/l	APHA 2540 D 23 rd Edition: 2017	P
Chemical	Recycled water	pH 1 to 14 pH units	APHA 4500 H ⁺ B 23 rd Edition:2017	P
		Total Chlorine 0.2 to 10 mg/l	APHA 4500 Cl G 23 rd Edition:2017	P



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		Dissolved Oxygen 0.5 to 10 mg/l	APHA 4500 O G 23 rd Edition:2017	P
		Total Dissolved Solids 25 – 4000 mg/l	APHA 2540 C 23 rd Edition:2017	
		Chemical Oxygen Demand (COD) 15.0 to 3000 mg/l	APHA 5220 D 23 rd Edition:2017	
		Biochemical Oxygen Demand (BOD) 0.5 – 2000 mg/l	APHA 5210 B 23 rd Edition:2017	
		Total Alkalinity and Bicarbonate Alkalinity 1.0 - 500 mg/l	APHA 2320 B 23 rd Edition:2017	
		Chloride 3.1 – 2000 mg/l	APHA 4500 Cl B 23 rd Edition:2017	
		Sulphate 2.8 -1000 mg/l	APHA 4500 SO ₄ C 23 rd Edition:2017 & SOP- 030-S Rev 04, Dec 2021	
		Ammonia Nitrogen 0.05 to 200 mg/l	APHA 4500 NH ₃ D 23 rd Edition:2017	
		Phosphorus (Total) 0.02 to 30 mg/l	APHA 4500 P E 23 rd Edition:2017	
Chemical	Recycled water	Aluminium 0.009 – 10000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion US EPA -3015A: 2007	P
		Barium 0.003 -5000 mg/l		
		Beryllium		



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		0.006 – 1000 mg/l		P
		Boron 0.009 – 10000 mg/l		
		Cadmium 0.005 – 2000 mg/l		
		Chromium 0.003 – 5000 mg/l		
		Cobalt 0.005 – 2000 mg/l		
		Copper 0.008 – 5000 mg/l		
		Iron 0.008– 10000 mg/l		
		Lead 0.005 – 10000 mg/l		
		Lithium 0.012 – 5000 mg/l		
		Manganese 0.005 – 1000 mg/l		
		Molybdenum 0.009 -5000 mg/l		
Chemical	Recycled water	Nickel 0.006 – 5000 mg/l	APHA 3120 B 23 rd Edition:2017 & Microwave digestion US EPA -3015A: 2007	P
		Vanadium 0.015 – 5000 mg/l		
		Zinc 0.006 – 5000 mg/l		
		Calcium		



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		0.17 -20000 mg/l		P
		Magnesium		
		0.53- 20000 mg/l		
		Potassium		
		0.51-20000 mg/l		
		Sodium		
		0.19-20000 mg/l		
		Mercury		P
		0.0003– 20 mg/l		
		Sodium Absorption Ratio	SOP-015-S Rev-0, June- 2019	P
Biological	Recycled water	Escherichia Coli (E.coli)	APHA 9223 B 23 rd Edition:2017, IDEXX method- Enzyme substrate method	P
		1.0 to 2419 MPN/100ml		
		Fecal Coliforms	APHA 9223 B 23 rd Edition:2017, IDEXX method- Enzyme substrate method	P
		1.0 to 2419 MPN/100ml		
		Intestinal Enterococci	APHA 9230 D 23 rd Edition:2017, IDEXX method- Enzyme substrate method	P
		1.0 to 2419 MPN/100ml		
Physical	Biosolids	Total Solids 1 - 100 %	APHA 2540 G 23 rd Edition:2017	P
END				