



Accreditation Scope

Emirates Material Testing Center (NAL 109) Testing Laboratory, (ISO/IEC 17025:2017)

Al Ain Industrial Area, Al Ain - Abu Dhabi, UAE

Issue Date: 06-12-2022

Expiry Date: 05-12-2025

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)
Geotechnical Investigation	Soil	Standard penetration test (SPT)	BS 1377 part 9:1990 Cl. 3.3 AMD 8264:1995	S
		Soil Sampling	BS 5930-2015+A1-2020, Sec. 4, Cl. 25.4	
		Description of Soils	BS 5930-2015+A1-2020, Sec. 6, Cl. 33	
	Rock	Rock Sampling	BS 5930-2015+A1-2020, Sec. 4, Cl. 25.7	S
		Rotary core samples	BS 5930-2015+A1-2020, Sec. 6, Cl. 36	S/P
		Description of Rocks	BS 5930-2015+A1-2020, Sec. 6, Cl. 36.4	
	Ground water	Groundwater monitoring and sampling	BS 5930-2015+A1-2020, Sec. 4, Cl. 26	S
Groundwater Measurements		BS 5930-2015+A1-2020, Sec. 4, 26.2, 26.3 Sec. 8, Cl. 52		
Geotechnical	Soil Tests	Particle Size Distribution – Sieving Method	BS EN ISO 17892-4:2016, Cl. 4.2, 5.2, 6.1	P
		Particle Size Distribution – Hydrometer method	BS EN ISO 17892-4:2016, Cl.4.3, 5.3, 6.2	
		Liquid limit, plastic limit, and plasticity index	ASTM D4318-17e1	
	Soil & Rock Tests	Determination of Water (Moisture) Content of Soil by Mass	BS EN ISO 17892-1:2014	P
		Preparing Rock Core Cylindrical Test Specimens	ASTM D4543-19	
		Unconfined compression test,	ASTM D 7012 -14e1	
		Determination of water (moisture) content of soil and rock by mass	ASTM D 2216-19	



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Geotechnical Report	Reporting	Reporting	BS 5930-2015+A1-2020, Sec. 10 – Cl. 63	P
Chemical	Soil	Water Soluble Sulphate Content	BS 1377-3:2018+A1:2021, Cl. 7.2, 7.3, 7.6	P
		Acid Soluble Sulphate Content	BS 1377-3:2018+A1:2021, Cl. 7.2, 7.6, 7.9	
		Acid Soluble Chloride Content	BS 1377-3:2018+A1:2021, Cl. 9.3	
		Water Soluble Chloride Content	BS 1377-3:2018+A1:2021, Cl. 9.2	
		pH	BS 1377-3:2018+A1:2021, Cl. 12	
	Ground Water	pH	BS 1377-3:2018+A1:2021, Cl. 12	P
		Sulphate Content	BS 1377-3:2018+A1:2021, Cl. 7.2, 7.6, 7.8	
Chloride Content		BS 1377-3:2018+A1:2021, Cl. 9.2		
Physical	Soil	Laboratory compaction characteristic of soil using modified effort (MDD/OMC)	ASTM D 1557-12:2021	P
		Method for Density and Unit Weight of Soil in Place by Sand- Cone Method	ASTM D 1556/D1556M-2015	P/S
	Concrete	Shape, dimensions and other requirements for specimens and moulds	BS EN 12390-1: 2021	P
		Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Compressive strength of test specimens	BS EN 12390-3:2019	
		Density of hardened concrete	BS EN 12390-7:2019	
	END			