



Accreditation Scope

First Soil Testing Laboratory L.L.C, (NAL 163) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah, M17 – Abu Dhabi, UAE

Issue Date: 13-02-2023

Expiry Date: 26-07-2024

Issue No: 02

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 In - Situ Testing	Standard Penetration Test – (SPT)	BS 1377 part 9:1990 – AMD 8264:1995, Cl. 3.3 BS 5930:2015+A1 2020	S	
	Soil sampling & Description	Soil Sampling	BS 5930:2015, Section 4, Cl. 25.4	S	
		Description of Soils	BS 5930:2015; Section 6, Cl. 33		
	Groundwater Management	Groundwater Measurements Groundwater monitoring and sampling	Groundwater Measurements	BS 5930:2015, Section 8, Cl. 52	S
			Groundwater monitoring and sampling	BS 5930:2015, Section 4, Cl. 26.4	
			Standpipe Piezometer	BS 5930:2015, Section 8, Cl. 52.5	
			Falling Head Permeability	BS 5930:1999, Section 4, Cl. 25.4	
	Rock Sampling & Description	Rock Sampling Rotary core samples Description of Rocks Rock Quality Designation (RQD) & Rock Core Recovery (RCR)	Rock Sampling Rotary core samples	BS 5930:2015, Section 4, Cl. 25.7	P
			Description of Rocks	BS 5930:2015, Section 6, Cl. 36.4	
			Rock Quality Designation (RQD) & Rock Core Recovery (RCR)	BS 5930:2015, Section 6, Cl. 36.4	
Geotechnical	Rock	Preparation of rock core	ASTM D4543-19	P	
		Unconfined Compressive Strength of Rock Core Specimen	ASTM D7012-2014 e1, Method C	P	
		Water (Moisture) Content of Soil & Rock by Mass (Added as Required for Core Moisture as per ASTM)	ASTM D2216-2019	P	
		Point Load Strength Index of Rock and Application to Rock Strength Classifications	ASTM D 5731-08	P	
	Soil	Particle Size Distribution	BS 1377-2:1990, AMD 9027-1996, Cl. 9.2 & 9.3 Withdrawn	P	
		Particle Size Distribution by Hydrometer Method	BS 1377-2:1990, AMD 9027-1996, Cl. 9.5 Withdrawn		
		Determination of Liquid Limit Casagrande apparatus method	BS 1377-2:1990, AMD 9027-1996, Cl. 4.5, Withdrawn		
		Determination of Plastic Limit and Plasticity Index	BS 1377-2:1990, AMD 9027-1996, Cl. 5.3 & 5.4 Withdrawn		



Accreditation Scope

First Soil Testing Laboratory L.L.C, (NAL 163) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah, M17 – Abu Dhabi, UAE

Issue Date: 13-02-2023

Expiry Date: 26-07-2024

Issue No: 02

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	Soil	Determination of Water (Moisture) Content of soil sample	BS 1377-2:1990, AMD 9027-1996, Cl. 3.2 Withdrawn	P
		Particle Density Small Pyknometer Method	BS 1377-2:1990, AMD 9027-1996, Cl. 8.3	
		Bulk & Dry Density Immersion in Water Method	BS 1377-2:1990, AMD 9027-1996, Cl. 7.3	
Chemical	Soil	Acid Soluble Sulphate Content of Soil	BS1377-3:2018+A1:2021, Cl. 7.2, 7.6 & 7.9	P
		Water Soluble Sulphate Content of Soil	BS1377-3:2018+A1:2021, Cl. 7.2, 7.3 & 7.6	
		Acid soluble Chloride Content of Soil	BS1377-3:2018+A1:2021, Cl. 9.3	
		Water soluble Chloride Content of Soil	BS1377-3:2018+A1:2021 Cl. 9.2	
		pH value of Soil	BS1377-3:2018+A1:2021 Cl. 12	
	Ground Water	pH value of Ground Water	BS1377-3:2018+A1:2021 Cl. 12	P
		Sulphate Content of Water	BS1377-3:2018+A1:2021 Cl. 7.2, 7.6 & 7.8	
		Chloride Content of Water	BS1377-3:2018+A1:2021, Cl. 9.2	
	Concrete	Sulphate Content of Concrete	BS 1881-124:2015+A1, Cl.12.2	P
		Chloride Content of Concrete	BS 1881-124:2015+A1, Cl.12.3	P
	Aggregate	Sulphate Content of Aggregate	BS 812-118:1988, Cl.6.3	P
		Chloride Content of Aggregate	BS 812-117:1988, App.C	P
	Soil	Organic Matter Content for Soil	BS1377-3:2018+A1:2021, Cl.4	P
Geotechnical	Reporting	Reporting	BS 5930:2015, Section 10, Cl. 63	P



Accreditation Scope

First Soil Testing Laboratory L.L.C, (NAL 163) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah, M17 – Abu Dhabi, UAE

Issue Date: 13-02-2023

Expiry Date: 26-07-2024

Issue No: 02

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	Concrete	Determination of Compressive strength of concrete Cubes	BS 1881-116: 1983: AMD. 6720 :1991 Superseded, Withdrawn	P
		Determination of density of hardened concrete	BS 1881-114:1983AMD 6720:1991 Superseded, Withdrawn	
		Method of normal curing of test specimens (20°C method)	BS 1881-111:1983AMD 6720:1991 Superseded, Withdrawn	
		Shape, dimension and other requirements for specimens and moulds	BS EN 12390-1:2012	
		Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Compressive strength of test specimens	BS EN 12390-3:2019	
		Density hardened concrete	BS EN 12390-7:2019	
		Water Absorption of Hardened Concrete	BS 1881 -122:2011	
		Method for Determination of the Compressive Strength of Concrete Cores	BS 1881 P 120:1983 AMD 6109(89) Superseded	
	Recommendations for Surface Hardness Testing by Rebound Hammer	BS 1881-202: 1986 Superseded, Withdrawn	S	
	Aggregate	Methods for Determination of Particle Size Distribution	BS 812-103.1:1985, CL 7.2 & 7.3 (WET&DRY) Superseded	P
		Sieve Analysis of Fine and Coarse Aggregates	ASTM C136/136M-19	
		Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117-17	
		Determination of particle shape - Flakiness index	BS 812 P 105.1:1889, Superseded	
Determination of particle shape - Elongation index		BS 812 P105.2:1990		



Accreditation Scope

First Soil Testing Laboratory L.L.C, (NAL 163) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah, M17 – Abu Dhabi, UAE

Issue Date: 13-02-2023

Expiry Date: 26-07-2024

Issue No: 02

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	Aggregate	Determination of Moisture	BS 812-109:1990 CL 6	P
		Particle Density and Water Absorption Coarse	BS 812 P2:1995 CL 5.3	
		Particle Density and Water Absorption Fine	BS 812 P2:1995 CL 5.5	
		Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate	ASTM C128-15	
		Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127-15	
		Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/C88-18	
		Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M-17	
		Ten Percentage Fine Value (TFV)	BS 812P111:1990 CL.7.1	
		Aggregate Impact Value (AIV)	BS 812 PART 112:1990 CL.7.1	
		Aggregate Crushing Value (ACV)	BS 812PART 110:1990 CL.7.1	
		Sand Equivalent Value of Soils and Fine Aggregate	ASTM D 2419-14	
		Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535-16 CL.9	
		Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131-C131M-14/20	
		Shell Content in Coarse Aggregate	BS 812 P 106:1985	



Accreditation Scope

First Soil Testing Laboratory L.L.C, (NAL 163) Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah, M17 – Abu Dhabi, UAE

Issue Date: 13-02-2023

Expiry Date: 26-07-2024

Issue No: 02

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	Soil	Maximum Dry Density/ Optimum moisture content relationship	BS1377 P4:1990 AMD 13925-02 CL 3.5 & 3.6	P
		Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft- lbf/ft ³ (2,700 kN-m/m ³))	ASTM D1557-12E1/21	
		California Bearing Ratio	BS BS1377 P4:1990AMD 13925- 02 CL 7.2 & 7.3	
		California Bearing Ratio	ASTM D1883-16	
		n-situ tests (Sand replacement method suitable for fine, medium and coarse grained soils (large pouring cylinder method)	BS1377 P9-1990 AMD 8264-95 CL 2.2	
		Density and Unit Weight of Soil in Place by the Sand-Cone Method	ASTM D1556/1556M15E1	
		Liquid limit Plastic Limit Plastic Index	ASTM D4318-17E1	
		Plate Load test	BS 1377 P9:1990 CL 4.1 AMD 8264-95	
		INSITU CBR	BS 1377 P9:1990 4.3 AMD 8264-9	
END				