

# Accreditation Scope

**Emirates Material Testing Center, NAL 109**

**Testing Laboratory, (ISO/IEC 17025:2017)**

**Al Ain, UAE**

**Issue Date: 27-12-2020**

**Expiry Date: 07-12-2022**

**Issue No: 04**

| 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 & Rock                 | Soil Penetration Test (SPT)  | BS 1377-9:1990, Cl. 3.3                               | S                                   |
|                                |                             | Soil Sampling  | BS 5930:2015 Cl. 25.0                                 |                                     |
|                                | Ground Water                | Ground Water Level Measurement   | BS 5930:2015 Cl. 26.2, 26.3 & 52                      | S                                   |
|                                |                             | Ground Water Sampling  | BS 5930:2015 Cl. 26.4                                 |                                     |
|                                | Soil & Rock                 | Soil and Rock Description  | BS 5930:2015 Cl. 33 & Cl. 36 Clark and Walker         | P/S                                 |
|                                | Chemical                    | Soil   | Acid Soluble Sulphate Content                         | BS 1377-3:2018, Cl. 7.2, 7.6, 7.9   |
| Water Soluble Sulphate Content |                             |  | BS 1377-3:2018, Cl. 7.2, 7.3, 7.6                     |                                     |
| Acid Soluble Chloride Content  |                             |  | BS 1377-3:2018, Cl. 9.3                               |                                     |
| Water Soluble Chloride Content |                             |  | BS 1377-3:2018, Cl. 9.2                               |                                     |
| pH                             |                             |  | BS 1377-3:2018, Cl. 12                                |                                     |
| Ground Water                   |                             | pH   | BS 1377-3:2018, Cl. 12                                | P                                   |
|                                |                             | Sulphate Content   | BS 1377-3:2018, Cl. 7.2, 7.6, 7.8                     |                                     |
|                                |                             | Chloride Content   | BS 1377:2018 Part 3, Cl. 9.2                          |                                     |

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| Physical      | Soil  | Particle Size Distribution   | BS EN ISO 17892-4:2016, Cl. 5.2                       | P                                   |
|               |   | Determination of Water (Moisture) Content of Soil and Rock by Mass         | BS EN ISO 17892-1:2014                                |                                     |
|               |   | Hydrometer   | BS EN ISO 17892-4:2016, CL 5.3                        |                                     |
|               |   | Liquid limit, plastic limit, and plasticity index                          | ASTM D4318-17e1                                       |                                     |
|               | Soil Rock                                     | Determination of water (moisture) content of soil and rock by mass         | ASTM D 2216-19  | P                                   |
| Rock          | Unconfined compression test, RoM: 0 to 200 kN | ASTM D 7012 -14e1  | P   |                                     |
| Geotechnical  | Rock  | Rock quality designation   | BS 5930:2015, Cl. 36.4                                | P/S                                 |
|               | Soil Rock                                     | Core recovery  | BS 5930:2015, Cl.36.4                                 | P/S                                 |
|               | Core Test                                     | Reporting  | BS 5930:2015, Section 10                              | P                                   |

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| Physical      | Rock                        | Preparation of rock core   | ASTM D4543-19   | P                                   |
|               | Soil                        | Laboratory compaction characteristic of soil using modified effort (MDD/OMC) | ASTM D 1557-12e1                                      | P                                   |
|               |                             | Method for Density and Unit Weight of Soil in Place by Sand-Cone Method      | ASTM D 1556/D1556M-2015                               | P/S                                 |
|               |                             | Shape, dimensions and other requirements for specimens and moulds            | BS EN 12390-1:2012                                    | 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                                    |                                     |
| <b>END</b>    |                             |  |   |                                     |