

Certificate of Accreditation

مختبر جيوساينس لفحص المواد - ذ م م (NAL018)

جنوب منطقة مصفح الصناعية - أبوظبي، الإمارات العربية المتحدة

حاصل على الإعتماد في الفحوصات المذكورة في وثيقة المجال المرفقة وفقاً للمواصفة الدولية ISO/IEC 17025

Geoscience Testing Laboratory – LLC (NAL 018)

South of Musaffah Industrial Area – Abu Dhabi , UAE

Accredited according to the ISO/IEC 17025 Standard to undertake tests as specified in the attached Accreditation Scope



Accredited on	2017/05/04	تاريخ منح الإعتماد
Expires on	2020/05/03	تاريخ الإنتهاء

Accreditation in accordance to the ISO/IEC 17025:2017 Standard "General requirements for the competence of testing and calibration laboratories" and the relevant ENAS and ILAC requirements.

This certificate is invalid without the attached scope of accreditation, which subjected to annual surveillances as per ENAS procedure. Certificate can be updated or re-issued until the expiry date defined above. The validity of the certificate is subjected to continuous compliance with the requirements of the accreditation system. The lab is responsible for the results of its testing.

Initial Accreditation Date: 06/11/2008

1 وفقاً لمتطلبات المواصفة الدولية ISO/IEC 17025:2017 "المتطلبات العامة لكفاءة مختبرات الفحص والمعايرة" والمتطلبات ذات العلاقة الخاصة بنظام الإعتماد الوطني الإماراتي ENAS والمنظمة الدولية لاعتماد المختبرات ILAC.

مجال الاعتماد جزء أساسي من هذه الشهادة حيث تخضع مجالات الاعتماد المذكورة في الوثيقة المرفقة لعمليات متابعة لاحقة من قبل نظام الإعتماد الوطني الإماراتي ENAS. وتعتبر هذه الشهادة صالحة وقابلة للتجديد وإعادة الاصدار حتى تاريخ الانتهاء المدون اعلاه شريطة استمرار المختبر المذكور اعلاه في تطبيق متطلبات نظام الاعتماد سالفة الذكر. يتحمل المختبر مسؤولية نتائج الفحص الصادرة عنه.

تاريخ منح الإعتماد لأول مرة: 06/11/2008

ACF 11-21; Rev 3;

ABU DHABI, UNITED ARAB EMIRATES - أبوظبي، الإمارات العربية المتحدة P.O.BOX 2166

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Geoscience Testing Laboratory, NAL 018

Testing Laboratory (ISO/IEC 17025:2017)

ICAD 3, South of Musaffah Industrial Area, Abu Dhabi, UAE

Issue Date: 07-08-2019

Expiry Date: 03-05-2020

Issue No.: 06

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Microbiology	Food	Aerobic Plate Count	USFDA BAM Chapter 3 (2001)	P
		Enumeration of Enterobacteriaceae	CCFRA 2.3.1:2007	
		Enumeration of Yeast and Moulds	CCFRA 2.1.1:2007	
		Enumeration of Coliforms by Colony Count Method	CCFRA 2.2.1:2007	
		Coliforms by MPN Method	CMMEF 9.71, 5 th Edition (2015)	
		Fecal Coliforms by MPN Method	CMMEF 9.81, 5 th Edition (2015)	
		E. coli by MPN Method	CMMEF 9.91, 5 th Edition (2015)	
		Enumeration of Coagulase Positive Staphylococcus aureus	CCFRA 3.5.1:2007	
		Detection of Salmonella spp, Cultural Method	CCFRA 3.1.2:2007	
		Salmonella Confirmatory Test	CCFRA 3.1.5:2007	
		Enumeration of Bacillus cereus	USFDA BAM Chapter 14 (2012)	
		Enumeration of Clostridium perfringens	CCFRA 3.6.1:2007	
		Detection of E. coli O 157 H7	AOAC 2000.14, 18 th Edition (2010) - Reveal Microbial Screening test by Neogen Corporation	
		Detection of Listeria Spp.	Reveal Microbial Screening Test for Listeria by Neogen Corporation AOAC Approved	
		Detection of Vibrio parahaemolyticus	CCFRA 3.8.2:2007	

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Microbiology	Water	Heterotrophic Plate Count	APHA AWWA 9215B 23 rd Ed. (2017)	P
		Enumeration of Total Coliforms	APHA AWWA 9222B 23 rd Ed. (2017)	
		Enumeration of Fecal coliforms	APHA AWWA 9222B and 9222G 23 rd Ed. (2017)	
		Enumeration of E. coli	APHA AWWA 9222B and 9222H 23 rd Ed. (2017)	
		Enumeration of Pseudomonas aeruginosa	NSM W6 Issue No.3 (2007)	
		Enumeration of Fecal Streptococci	APHA AWWA 9230C 23 rd edition (2017)	
		Legionella	ISO 11731:2017	
		Sampling for legionella	BS 7592:2008	
		Enumeration of Yeast and Mould	APHA AWWA 9610D 23 rd Ed. (2017)	
		Total Coliforms by MPN	APHA AWWA 9221B 23 rd Ed. (2017)	
		Fecal coliforms by MPN	APHA AWWA 9221E.1, 23 rd Ed. (2017)	
		E. coli by MPN	APHA AWWA 9221F 23 rd Ed. (2017)	
	Water & Ice	Enumeration of Staphylococcus aureus	National Standard Method, NSM W10:2005	
	Environment - Air	Total Viable Count - Total Yeast and Mould Count - Total Bacterial Count	IESO Method 1220, 2 nd Ed.(2003) Method 800, NIOSH, 4 th Ed.(1998)	

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Microbiology	Hand Swab	Aerobic Colony Count	USFDA BAM Chapter 3 (2001)	P
		Enumeration of Total Coliforms	CCFRA 2.2.1:2007	
		Enumeration of Staphylococcus aureus	CCFRA 3.5.1:2007	
	Surface Swab	Aerobic Colony Count	USFDA BAM Chapter 3 (2001)	
		Enumeration of Total Coliforms	CCFRA 2.2.1:2007	
		Enumeration of E. coli	CCFRA 2.4.4:2007	
Physical	Soil	Determination of In-Situ Density by Sand Replacement Method	BS 1377 Part 9:1990 clause 2.2 AMD 8264-1995	S
		Determination of Dry Density Moisture Content Relationship	BS 1377 Part 4:1990, clause 3.5 and 3.6 AMD 13925 – 2002	P
		Determination of Particle Size Distribution	BS 1377 Part 2:1990 clause 9.2 and 9.3 AMD 9027-1996	
		Determination of California Bearing Ratio	BS 1377 Part 4:1990 clause 7.2.3 AMD 13925 - 2002, ASTM D 1883:2016	
		Determination of Liquid Limit	BS 1377 Part 2:1990 clause 4.3 AMD 9027-1996	
		Determination of Plastic Limit and Plasticity Index	BS 1377 Part 2:1990 clause 5.3 and 5.4 AMD 9027-1996	
		Determination of Particle Size Distribution by Hydrometer Method	BS 1377 Part 2:1990 clause 9.5 AMD 9027-1996	
		Determination of Water (Moisture) Content of soil sample	BS 1377 Part 2:1990 clause 3.2 AMD 9027-1996	

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Physical	Soil & Rock	Determination of Water (Moisture) Content of soil & Rock sample	ASTM D2216:10	P
	Rock	Preparation of rock Core	ASTM D4543:08	
		Unconfined Compressive Strength	ASTM D 7012:2014 ^{E1} , Method C	
	Aggregates	Determination of Particle Size Distribution Wet, Dry	BS 812 Part 103:1985	
		Determination of Flakiness Index of Aggregates	BS 812 Part 105.1:1989	
		Determination of Elongation Index of Aggregates	BS 812 Part 105.2:1990	
		Determination of Shell Content in Course Aggregates	BS 812 Part 106:1985	
		Determination of Crushing Value	BS 812 Part 110:1990	
		Determination of Ten Percent Fines Value	BS 812 Part 111:1990	
		Determination of Soundness of Aggregates by use of Sodium Sulphate and Magnesium Sulphate	ASTM C 88:18	
		Material Finer Than 75 Microns sieve in Mineral Aggregates by Washing	ASTM C 117:17	
		Specific Gravity and water Absorption of Coarse Aggregates	ASTM C 127:2015	

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Physical	Aggregates	Specific Gravity and Water Absorption of Fine Aggregates	ASTM C 128:2015	P
		Sieve Analysis of Fine and Coarse Aggregates	ASTM C 136:2014	
		Determination of Clay Lumps and Friable Particles	ASTM C 142:2017	
		Determination of Sand Equivalent Value	ASTM D 2419:2014	
		Determination of Aggregate Impact Value	BS 812 Part 112:1990	
	Concrete	Determination of Compressive Strength of Cubes	BS 1881 Part 116:1983	
		Determination of density of hardened concrete	BS 1881 Part 114:1983	
		Method of normal curing of test specimens	BS 1881 Part 111:1983	
		Testing of Hardened Concrete - Part 3 - Compressive Strength of Test Specimens	BS EN 12390 Part 3:2009	
		Determination of Density of Hardened Concrete	BS EN 12390 Part 7:2009	
		Shape, dimension and other requirements for specimen	BS EN 12390 Part 1:2012	
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202:2017	

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Physical	Concrete	Determination of Depth of Penetration of Water under Pressure	BS EN 12390 Part 8:2009	P
		Determination of Water Permeability	DIN 1048 Part 5:1991	
		Determination of Water Absorption of Hardened Concrete	BS 1881 Part 122:2011	
		Determination of Initial Surface Water Absorption of Concrete	BS 1881 Part 208:1996	
	Steel Rebar	Tensile Strength	BS 4449:1988, BS 4449:1997, BS 4449:2005+A3:2016, BS EN 10002:2001, BS EN ISO 6892-1:2009	
Chemical	Aggregates	Chloride Content of Agg. using Nitric Acid Extract for Agg. containing chloride not extracted by water	BS 812 Part 117:1988	P
		Total Sulphate by Acid Extraction Method	BS 812 Part 118:1988	
		Organic Impurities in Fine Aggregates for Concrete	ASTM C40 - 16	
	Concrete	Determination of Chloride Content in Hardened Concrete	BS 1881 Part 124:2015 Clause 12.1	
	Ground Water	Determination of the pH value of Groundwater	BS 1377-3:2018 Clause 12	
		Determination of sulphate content of Groundwater	BS 1377-3:2018 Clause 7.6, 7.8	
		Determination of Chloride content in Ground Water	BS 1377-3:2018 Clause 9.1	

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Chemical	Soil	Determination of the pH value of soil	BS 1377-3:2018 Clause 12	P
		Determination of Water soluble sulphate in soil	BS 1377-3:2018 Clause 7.3, 7.6	
		Determination of acid soluble sulphate	BS 1377-3:2018 Clause 7.6, 7.9	
		Determination of Water soluble chloride content	BS 1377-3:2018 Clause 9.2	
		Determination of acid soluble chloride content	BS 1377-3:2018 Clause 9.3	
		Organic Matter content for Soil	BS 1377 Part 3:1990 clause 3 AMD 9028-1996	
	Drinking Water	pH	APHA AWWA 23 rd Ed:2017, 4500 H+ B	
		Total Dissolved Solids	APHA AWWA 23 rd Ed:2017, 2540 C	
		Total Suspended Solids	APHA AWWA 23 rd Ed:2017, 2540 D	
		Chloride	APHA AWWA 23 rd Ed:2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 rd Ed:2017, 4500 SO ₄ ²⁻ C, Hach 8051	
		Calcium	APHA AWWA 23 rd Ed:2017, 3500 Ca B	
		Magnesium	APHA AWWA 23 rd Ed:2017, 3500 Mg B	
		Total Hardness	APHA AWWA 23 rd Ed:2017, 2340 C	
		Total Alkalinity to 4.4	APHA AWWA 23 rd Ed:2017, 2320 B	

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Chemical	Drinking Water	Manganese	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	P
		Copper		
		Chromium		
		Zinc		
		Iron		
	Sea Water	pH	APHA AWWA 23 rd Ed:2017, 4500 H+ B	P
		Total Dissolved Solids	APHA AWWA 23 rd Ed:2017, 2540 C	
		Total Suspended Solids	APHA AWWA 23 rd Ed:2017, 2540 D	
		Chloride	APHA AWWA 23 rd Ed:2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 rd Ed:2017, 4500 SO ₄ ²⁻ C	
		Chemical Oxygen Demand	APHA AWWA 23 rd Ed:2017, 5220 B	
		Bio Chemical Oxygen Demand	APHA AWWA 23 rd Ed:2017, 5210 D	
		Oil and Grease	APHA AWWA 23 rd Ed:2017, 5520 B	
		Copper	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Iron	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Zinc	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Nickel	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	

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Chemical	Waste Water	pH	APHA AWWA 23 rd Ed:2017, 4500 H+ B	P
		Total Dissolved Solids	APHA AWWA 23 rd Ed:2017- 2540 C	
		Total Suspended Solids	APHA AWWA 23 rd Ed:2017, 2540 D	
		Oil and Grease	APHA AWWA 23 rd Ed:2017, 5520 B	
		Chemical Oxygen Demand	APHA AWWA 23 rd Ed:2017, 5220 B	
		Biochemical Oxygen Demand	APHA AWWA 23 rd Ed:2017, 5210 D	
		Zinc	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Copper	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Iron	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Manganese	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Chromium	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Nickel	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Cobalt	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Cadmium	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	

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Chemical	Ground water	pH	APHA AWWA 23 rd Ed:2017, 4500 H+ B	P
		Total Dissolved Solids	APHA AWWA 23 rd Ed:2017, 2540 C	
		Chloride	APHA AWWA 23 rd Ed:2017,4500 Cl B	
		Sulphate	APHA AWWA 23 rd Ed:2017, 4500 SO ₄ ²⁻ C	
		Total Suspended Solids	APHA AWWA 23 rd Ed:2017, 2540 D	
		Oil and Grease	APHA AWWA 23 rd Ed:2017,5520 B	
		Chemical Oxygen Demand	APHA AWWA 23 rd Ed:2017, 5220 B	
		Biochemical Oxygen Demand	APHA AWWA 23 rd Ed:2017, 5210 D	
		Zinc	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Copper	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Iron	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	
		Chromium	APHA AWWA 23 rd Ed:2017- 3111B, 3030F	

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Geotechnical	Geotechnical -Soil Investigation using Rotary & Percussion	Ground Water Level Measurement	BS 5930:2015 clause 52.2, 52.3, 52.5 and 52.10	S
		Ground Water Sampling	BS 5930:2015 clause 26.4	
		Soil and Rock Sampling	BS 5930:2015 clause 25	
		Determination of Penetration resistance using Split Barrel Sampler	BS 1377 part 9:1990 clause 3.3 AMD 8264:1995, BS 5930:2015	
		Soil and Rock Description	BS 5930:2015 clause 33 and 36	S & P
		Rock Quality Designation	BS 5930:2015 Section 6	
		Core Recovery	BS 5930:2015 Section 6	
		Reporting	BS 5930:2015 Section 10	P
Environment Monitoring	Ambient Air	Determination of Carbon dioxide - CO ₂	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	S
		Determination of Carbon monoxide - CO	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	
		Determination of Ozone - O ₃	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	
		Determination of PM 10, PM 2.5	SOP CH - 16 based on AS/NZS 3580 12.1:2001 (for PM)	
		Determination of PM 2.5, PM 10 and Total Suspended Particulate	SOP CH - 24 based on AS/NZS 3580 12.1:2001	

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Environment Monitoring	Ambient Air	Determination of Relative Humidity	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	S
		Determination of Sulfur dioxide - SO ₂	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	
		Determination of Temperature	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	
		Determination of VOC	SOP CH - 16 based on BS EN 60079-29-2, 2015 (for gases)	
		Total Suspended Particulate Matter	SOP CH - 16 based on AS/NZS 3580 12.1:2001 (for PM)	
	Indoor Air Quality	Illuminance Monitoring	SOP CH 22	
		Determination of Carbon dioxide - CO ₂	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Determination of Carbon Monoxide - CO	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Determination of Formaldehyde - HCHO	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Determination of Nitrogen dioxide - NO ₂	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Determination of Ozone - O ₃	SOP CH - 04 based on BS EN 60079-29-2:2015	

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Environment Monitoring	Indoor Air Quality	Determination of PM 10, PM 7, PM 2.5 and PM 1	SOP CH - 05	S
		Determination of Relative Humidity	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Determination of Sulfur dioxide	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Determination of Temperature	SOP CH - 04 based on BS EN 60079-29-2:2014	
		Determination of TVOC	SOP CH - 04 based on BS EN 60079-29-2:2015	
		Total Suspended Particulate	SOP CH - 05	
	Noise	Noise Monitoring - LAeq, LA Max, LA Min	ISO 1996 - 1 and 2:2017	
	Stack Emission	Determination of Carbon dioxide - CO ₂	SOP CH - 27 based on Testo 350	
		Determination of Carbon Monoxide - CO	USEPA CTM 034	
		Determination of Flue Gas Temperature	USEPA CTM 034	
		Determination of Hydrocarbon - VOC	USEPA CTM 034	
		Determination of Nitrogen dioxide - NO ₂	USEPA CTM 034	

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Environment Monitoring	Stack Emission	Determination of Nitrogen Monoxide - NO	USEPA CTM 034	S
		Determination of Oxides of Nitrogen - NO _x	USEPA CTM 034	
		Determination of Oxygen - O ₂	USEPA CTM 034	
		Determination of stack gas velocity and volumetric flow rate	SOP CH - 01 based on USEPA Method 2	
		Determination of Sulfur dioxide - SO ₂	USEPA Method 6C, 2017	
		Determination of TSP emission from stationary source	SOP CH - 01 based on USEPA Method 5	
END				