Hellenic Accreditation System

Annex F1/13 to the Certificate No **366**-6

SCOPE of ACCREDITATION

of the
Testing Laboratory

Biogeochemical Laboratory
of the
Institute of Oceanography
of the
Hellenic Centre for Marine Research

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
Chemical Tests		
1. Seawater	1. Determination of nitrate ions	*Laboratory method code:MΔ-01* In-house method based on the Strickland-Parsons[1] and EPA 353.4[2] methods.
	2. Determination of nitrite ions	*Laboratory method code: MΔ-02* In-house method based on the Strickland-Parsons[1] and EPA 353.4[2] methods.
	3. Determination of silicate ions	*Laboratory method code: MΔ-03* In-house method based on the Mullin-Riley[3] and EPA 366.0[4] methods.
	4. Determination of phosphate ions	*Laboratory method code: MΔ-04* In-house method based on the Murphy-Riley[5] and EPA 353.4[2] methods.
	5. Determination of ammonium ions	*Laboratory method code: MΔ-05* In-house method based on the Koroleff [6] method.
2. Seawater	Determination of the following Polycylic Aromatic Hydrocarbons:	*Laboratory method code: MΔ-06* In-house method based on the

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	Naphthalene, 2-methyl-Naphthalene, 1-methyl-Naphthalene, Acenaphthylene, Acenaphthene, 1,2-dimethyl-Naphthalene, 2,6-dimethyl-Naphthalene, 2,3,5-trimethyl-Naphthalene, Fluorene, Dibenzothiophene, Phenanthrene, Anthracene, 1-methyl-Phenanthrene, 2-methyl-Phenanthrene, 3,6-dimethyl-Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene+triphenylene, Benzo(b)+Benzo(j)fluoranthene, Benzo(k)fluorenthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno[1,2,3-cd]pyrene Benzo(ghi)perylene Dibenzo(a,h)anthracene	OSPAR Guidelines 2013.
3. Marine sediments	Determination of the following Polycylic Aromatic Hydrocarbons: Naphthalene, Methyl-Naphthalenes, Acenaphthylene, Acenaphthene, dimethyl-Naphthalenes, trimethyl-Naphthalenes, Fluorene, Dibenzothiophene, Methyl-Dibenzothiophenes, Dimethyl – Dibenzothiophenes, Phenanthrene, Anthracene, methyl-Phenanthrenes, dimethyl-Phenanthrenes, trimethyl-Phenanthrenes, Fluoranthene, Pyrene, Methyl-pyrenes, Dimethyl-pyrenes, Benzo(a)anthracene, Chrysene+triphenylene, Methyl-chrysenes, Dimethyl-chrysenes Benzo(b)+Benzo(j)fluoranthene, Benzo(k)fluorenthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno[1,2,3-cd]pyrene, Benzo(ghi)perylene, Dibenzo(a,h)anthracene	*Laboratory method code:MΔ-07* In-house method based on the UNEP/IOC/IAEA, 1995 and OSPAR Guidelines 2002.
4. Marine Sediments, rocks, soils, bauxites	1. Determination of major elements: Fe_2O_3, CaO, TiO_2, Al_2O_3, K_2O, MgO, Na_2O, P_2O_5, $S0_3$, SiO_2	*Laboratory method code:MΔ-08* In-house method
	2. Determination of trace elements: As, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Sn, Sr, V, Zn.	*Laboratory method code: MΔ-09* In-house method

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Sampling		
1. Seawater and marine sediments	Sampling for the determination of parameters included in the present scope of accreditaion	*Laboratory method code:ΜΔ-10* In-house method based on: ESYD KO-SAMPLING /01/02/10-5-2006, ISO 5667-9, ISO 5667-1, ISO 5667-14, ISO 5667-19, ISO 5667-12, ISO 5667-15

[1] OSPAR, 2013. JAMP Guideline for monitoring of contaminants in seawater, OSPAR agreement 2013-03
[2] UNEP/IOC/IAEA, 1992. Determination of petroleum hydrocarbons in sediments. Reference methods for marine pollution studies No.20.
[3] OSPAR, 2002. JAMP Guideline for monitoring of contaminants in sediments, OSPAR agreement 2002-16

Site of assessment: **Laboratory Permanent Premises – 47 km Athinon-Souniou Av., Anavyssos 19013, Greece**
Approved signatories: **A. Pavlidou, I. Hatzianestis, E. Rouselaki, A. Papageorgiou**

This Scope of Accreditation replaces the previous one, dated 15.03.2024.
The Accreditation Certificate No. **366**-6, according to ELOT EN ISO/IEC 17025:2017, is valid until 15.07.2028.

Athens, 27th of June 2025

Konstantinou Evangelos Apostolos
CEO of ESYD