Hellenic Accreditation System

Annex F1/13 to the Certificate No. **771**-5
SCOPE of ACCREDITATION
of the
Testing Laboratory

‘‘ENVIROSOL”
Tsafaridou Kl. – Karyofyllidis Eus. & SIA E.E.

Materials / Tested products	Type of test / Measured properties	Applied standards / Techniques used
Chemical Tests		
1. Drinking water, surface water, groundwater, swimming pool water and wastewater	1. Determination of pH	APHA* 4500-H^+ B
	2. Determination of conductivity	APHA* 2510 B
	3. Determination of ammonia	ISO 7150-1:1984
	4. Determination of nitrates	Hach LCK 339
2. Drinking water, surface water, groundwater and swimming pool water	1. Determination of chloride	APHA* 4500-Cl^- B
	2. Determination of calcium	APHA* 3500-Ca B
	3. Determination of magnesium	APHA* 3500-Mg B
	4. Determination of total hardness	APHA* 2340 C
	5. Determination of residual chlorine	APHA 4500-CI G
3. Surface water, groundwater and wastewater	1. Determination of chemical oxygen demand (COD)	Hach LCK 314 & 514
	2. Determination of total suspended solids (TSS)	APHA* 2540 D
	3. Determination of total dissolved solids	APHA 2540 C
	4. Determination of dissolved oxygen	APHA 4500 O
	5. Determination of BOD	APHA 5210 D
4. Drinking water, surface water, groundwater and wastewater	1. Determination of alkalinity	APHA* 2520 B
	2. Determination of sulfates	Hach 8051 based on APHA* 4500-SO_4 E
	3. Determination of nitrite	EN 26777:1993
	4. Determination of total Nitrogen	Hach LCK 238
	5. Determination of total Phosphates	Hach LCK 348

Materials / Tested products	Type of test / Measured properties	Applied standards / Techniques used
5. Drinking water, surface water, groundwater and wastewater	1. Determination of Color	APHA* 2120 C
6. Drinking water, surface water, groundwater	1. Determination of potassium	APHA* 3500-K B Flame photometry
	2. Determination of sodium	APHA* 3500-Na B Flame photometry
	3. Determination of calcium	EN ISO 7980:2000 Flame Atomic Absorption Spectrometry
	4. Determination of magnesium	
	5. Determination of borate	Based on ISO 9390:1990
	6. Determination of fluoride	APHA* 4500-F D
	7. Determination of Chromium (VI)	APHA* 3500-Cr B
7. Drinking water, surface water, groundwater, and wastewater	1. Determination of Copper	APHA* 3111B Flame Atomic Absorption Spectrometry
	2. Determination of Zinc	
	3. Determination of Iron	
	4. Determination of Manganese	
8. Drinking water, surface water, groundwater and wastewater	1. Determination of arsenic	APHA* 3114B Atomic Absorption Spectrometry – Hydride Generation
Microbiological Tests		
Drinking water, surface and swimming pool waters	1. Enumeration of culturable microorganisms at 36ºC and 22o C	ISO 6222:1999
	2. Enumeration of *Escherichia coli* and coliform bacteria	ISO 9308-1:2014
	3. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
	4. Detection and enumeration of Pseudomonas aeruginosa	ISO 16266:2006
Sampling		
Drinking water, groundwater and waste water	1. Sampling for the determination of chemical parameters	ISO 5667-1:2020 ISO 5667-3:2018 ISO 5667-5:2006 ISO 5667-10:2020 ISO 5667-11:2009 ISO 5667-14:2016
	2. Sampling for microbiological parameters	ISO 19458:2006

* *American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater"*, 24th Edition, 2022

Site of assessment: **Permanent laboratory premises – 284 Eikostis Ogdois Oktovriou, 67133, Xanthi, Greece**
Approved Signatory: **Kleoniki Tsafaridou**

This Scope of Accreditation replaces the previous one, dated 20.09.2023.
The Accreditation Certificate No. **771**-5, according to ELOT EN ISO/IEC 17025:2017, is valid until 20.10.2028.

Athens, 26th of April 2024

Christos Nestoras
CEO of ESYD