CHEMICAL TESTING AND ANALYTICAL SERVICES
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Certificate No. 154-8

LIST OF ACCREDITED ACTIVITIES WITHIN THE FLEXIBLE SCOPE

The accredited tests shown below are included in the Laboratory's published Scope of Accreditation, Edition 4th, dated 30-01-2025.

Classification number Materials/products tested	**Type of test/properties measured Range of measurement**	**Standard specifications Equipment/techniques used**
Drinking water, surface water, ground water and waste water.	Determination of metals: - Aluminum (Al), - Beryllium (Be), - Cobalt (Co), - Iron (Fe), - Nickel (Ni), - Cadmium (Cd), - Copper (Co), - Selenium (Se), - Arsenic (As), - Manganese (Mn), - Tin (Sn), - Lead (Pb), - Chromium (Cr), - Vanadium (V), - Strontium (Sr)	APHA 3113 A, B, C, (ΜΔ-40) by Electrothermal Continuous Source Atomic Absorption Spectroscopy (GF-CS-AAS)
Drinking water, surface water, ground water and sea water	Determination of arsenic	In house method (ΜΔ-35) by Hydride Generation Atomic Absorption Spectroscopy based on ISO 11969:1996
Drinking water, surface water, ground water, sea water and waste water	Determination of Mercury (Hg)	*In house method (ΜΔ-30) by Cold Vapor Atomic Fluorescence Spectroscopy based on ISO 17852:2006*
Sludge, sediments, soil, solid waste	Determination of metals: -Aluminum (Al), - Beryllium (Be), - Cobalt (Co), - Iron (Fe), - Nickel (Ni), - Cadmium (Cd), - Copper (Cu), - Selenium (Se), - Arsenic (As),	APHA 3113 A, B, C, 22nd Ed. 2012 (ΜΔ-40) by Electrothermal Continuous Source Atomic Absorption Spectroscopy (GF-CS-AAS) After sample preparation based on the following standards ASTM D 5198-09 ASTM D 4698-92 EPA 3050 B

	- Manganese (Mn), - Tin (Sn), - Lead (Pb), - Chromium (Cr), - Vanadium (V), - Strontium (Sr)	
Sludge, sediments, soil, solid waste	Determination of the heavy metals: - Cadmium (Cd), - Copper (Cu), - Lead (Pb), - Zinc (Zn), - Nickel (Ni), - Iron (Fe), - Manganese (Mn)	APHA 3111 B Flame atomic absosption spectrophotometry After sample preparation based on the following standards: ASTM D 5198-09 ASTM D 4698-92 EPA 3050 B
Surface water, ground water and waste water	Determination of antimony (Sb)	APHA 3113 A, B, C, (ΜΔ-40) by Electrothermal Continuous Source Atomic Absorption Spectroscopy (GF-CS-AAS)
Surface water, ground water and waste water	Determination of the heavy metals: - Cadmium (Cd), - Copper (Cu), - Lead (Pb), - Zinc (Zn), - Nickel (Ni), - Iron (Fe), - Manganese (Mn)	APHA 3111 B Flame atomic absosption spectrophotometry
Drinking water, surface water, groundwater and wastewater	2. Determination of cations - Li - Na - K - Ca - Mg - NH_4	*In-house method (ΜΔ-05), IC-CD method based on ISO 14911:1998*
Particulate matter samples from ambient atmosphere or stack emissions (stack emissions)	Determination of Zn, Mn, Ni, Cu, Cd, Pb, Ag, As, Sb, Se, Co	In house method ΜΔ101 based on ELOT EN 14385:2004, NIOSH Method 7300, APHA 3111B (Direct Acetylene Air Flame AAS) και APHA 3113 (Electrothermal CS-AAS) 3113 (Electrothermal CS-AAS)
Drinking water, surface water, ground water, sea water, waste water and Sludges, solid wastes, sediments, soil samples, atmospheric particulate matter	Determination of metals -Aluminum (Al), - Beryllium (Be), - Cobalt (Co), - Iron (Fe), - Nickel (Ni), - Cadmium (Cd),	Modified based on 3125 Standard Methods of Water & Wastewater, Method A,B Method for the Determination of Metals by Inductively Coupled Plasma Atomic Emission Spectrophotometry (ICP-MS) Technique

	- Copper (Cu), - Selenium (Se), - Arsenic (As), - Manganese (Mn), -Tin (Sn), - Lead (Pb), - Chromium (Cr), - Vanadium (V), - Strontium (Sr) - Calcium (Ca), - Magnesium (Mg), - Potassium (K), - Sodium (Na), - Phosphorus (P), - Boron (B), - Zinc (Zn), - Mercury (Hg), - Antimony (Sb), - Barium (Ba), - Molybdenum (Mo), - Silver (Ag), - Silicon (Si), - Titanium (Ti), - Thallium (Tl), - Uranium (U)	
Metal Alloys	Determination of major and trace elements with atomic numbers 13 to 92	In house method OE_121 (XRF)
Sediments Soils	Προσδιορισμός των μετάλλων - Iron (Fe), - Manganese (Mn), - Copper (Cu), - Arsenic (As), - Zinc (Zn)	In house method OE_121 (XRF)

**The Laboratory Management maintains the above list of accredited activities, which is submitted to ESYD and is available to any interested party.*

Date of last submission to ESYD: 30/01/2025

The Director of the Laboratories

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