SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.
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CHEMICAL

Valid To: February 28, 2014 Certificate Number: 2407.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests and analyses on electrical and electronic equipment, including metals, alloys, plastics and polymers, using the following technologies and in the analyte categories identified below:

Technology/Analyte	Matrix	
ICP-OES	Solids	Liquids
Aluminum (Al)	IEC 62321, 6010C	IEC 62321, 6010C
Antimony (Sb)	IEC 62321, 6010C	IEC 62321, 6010C
Arsenic (As)	IEC 62321, 6010C	IEC 62321, 6010C
Barium (Ba)	IEC 62321, 6010C	IEC 62321, 6010C
Beryllium(Be)	IEC 62321, 6010C	IEC 62321, 6010C
Bismuth(Bi)	IEC 62321, 6010C	IEC 62321, 6010C
Cadmium (Cd)	IEC 62321, 6010C	IEC 62321, 6010C
Chromium (Cr)	IEC 62321, 6010C	IEC 62321, 6010C
Cobalt (Co)	IEC 62321, 6010C	IEC 62321, 6010C
Copper (Cu)	IEC 62321, 6010C	IEC 62321, 6010C
Gold (Au)	IEC 62321, 6010C	IEC 62321, 6010C
Iron (Fe)	IEC 62321, 6010C	IEC 62321, 6010C

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ICP-OES	Solids	Liquids
Lead (Pb)	IEC 62321, 6010C CPSC-CH-E1003-09 CPSC-CH-E1002-08 CPSC-CH-E1001-08 16 CFR 1303 (ASTM1613)	IEC 62321, 6010C CPSC-CH-E1003-09 CPSC-CH-E1002-08 16 CFR 1303 (ASTM1613)
Magnesium (Mg)	IEC 62321, 6010C	IEC 62321, 6010C
Manganese (Mn)	IEC 62321, 6010C	IEC 62321, 6010C
Nickel (Ni)	IEC 62321, 6010C	IEC 62321, 6010C
Selenium (Se)	IEC 62321, 6010C	IEC 62321, 6010C
Silver (Ag)	IEC 62321, 6010C	IEC 62321, 6010C
Tantalum (Ta)	IEC 62321, 6010C	IEC 62321, 6010C
Tin (Sn)	IEC 62321, 6010C	IEC 62321, 6010C
Vanadium (V)	IEC 62321, 6010C	IEC 62321, 6010C
Zinc (Zn)	IEC 62321, 6010C	IEC 62321, 6010C
ICP-MS		
Aluminum (Al)	6020A	6020A
Antimony (Sb)	6020A	6020A
Arsenic (As)	6020A	6020A
Barium (Ba)	6020A	6020A
Beryllium (Be)	6020A	6020A
Bismuth (Bi)	6020A	6020A
Cadmium (Cd)	6020A	6020A
Chromium (Cr)	6020A	6020A
Cobalt (Co)	6020A	6020A
Copper (Cu)	6020A	6020A
Gold (Au)	6020A	6020A
Iron (Fe)	6020A	6020A
Lead (Pb)	6020A CPSC-CH-E1001-08 CPSC-CH-E1002-08 CPSC-CH-E1003-09	6020A CPSC-CH-E1002-08 CPSC-CH-E1003-09
Manganese (Mn)	6020A	6020A
Nickel (Ni)	6020A	6020A

ICP-MS	Solids	Liquids
Phosphorus (P)	6020A	6020A
Selenium (Se)	6020A	6020A
Silver (Ag)	6020A	6020A
Tantalum (Ta)	6020A	6020A
Thallium (Tl)	6020A	6020A
Tin (Sn)	6020A	6020A
Titanium (Ti)	6020A	6020A
Vanadium (V)	6020A	6020A
Zinc (Zn)	6020A	6020A
CVAA		
Mercury (Hg)	IEC 62321, SW846-7471B	IEC 62321, SW846-7470A
Colorimetric		
Hexavalent Chromium (CrVI)	IEC 62321	IEC 62321
GC-MS-Polybrominated Biphenyls		
Monobromobiphenyls	IEC 62321	IEC 62321
Dibromobiphenyls	IEC 62321	IEC 62321
Tribromobiphenyls	IEC 62321	IEC 62321
Tetrabromobiphenyls	IEC 62321	IEC 62321
Pentabromobiphenyls	IEC 62321	IEC 62321
Hexabromobiphenyls	IEC 62321	IEC 62321
Heptabromobiphenyls	IEC 62321	IEC 62321
Octabromobiphenyls	IEC 62321	IEC 62321
Nonabromobiphenyls	IEC 62321	IEC 62321
GC-MS-Polybrominated Diphenyl Ethers		
Decabromobiphenyl (PBB-209)	IEC 62321	IEC 6231
Monobromodiphenyl Ethers	IEC 62321	IEC 62321
Dibromodiphenyl Ethers	IEC 62321	IEC 62321
Tribromodiphenyl Ethers	IEC 62321	IEC 62321
Tetrabromodiphenyl Ethers	IEC 62321	IEC 62321
Pentabromodiphenyl Ethers	IEC 62321	IEC 62321
Hexabromodiphenyl Ethers	IEC 62321	IEC 62321

GC-MS-Polybrominated Diphenyl Ethers	Solids	Liquids
Heptabromodiphenyl Ethers	IEC 62321	IEC 62321
Octabromodiphenyl Ethers	IEC 62321	IEC 62321
Nonabromodiphenyl Ethers	IEC 62321	IEC 62321
Decabromodiphenyl Ether	IEC 62321	IEC 62321
Hexabromocyclododecane	IEC 62321	IEC 62321
Tetrabromobisphenol A	IEC 62321	IEC 62321
GC-MS-Phthalates		
Benzyl butyl phthalate (BBP)	CPSC-CH-C1001-09.3, EPA 8270C	CPSC-CH-C1001-09.3, EPA 8270C
Dibutyl phthalate (DBP)	CPSC-CH-C1001-09.3, EPA 8270C	CPSC-CH-C1001-09.3, EPA 8270C
Bis-(2-ethylhexyl)phthalate (DEHP)	CPSC-CH-C1001-09.3, EPA 8270C	CPSC-CH-C1001-09.3, EPA 8270C
Diisodecyl phthalate (DIDP)	CPSC-CH-C1001-09.3, EPA 8270C	CPSC-CH-C1001-09.3, EPA 8270C
Di-n-octyl phthalate (DNOP)	CPSC-CH-C1001-09.3, EPA 8270C	CPSC-CH-C1001-09.3, EPA 8270C
Diisononyl phthalate (DINP)	CPSC-CH-C1001-09.3, EPA 8270C	CPSC-CH-C1001-09.3, EPA 8270C
X-Ray Fluorescence Spectrometry (XRF)		
Cadmium (Cd)	IEC 62321	----------
Chromium (Cr)	IEC 62321	----------
Lead (Pb)	IEC 62321	----------
Mercury (Hg)	IEC 62321	----------
Bromine (Br)	IEC 62321	----------
Ion Chromatography IC-Conductivity		
Bromide (Br)	SW846 9056, EN14582	SW846 9056, EN14582
Chloride (Cl)	SW846 9056, EN14582	SW846 9056, EN14582
Nitrate (NO_3)	SW846 9056, EN14582	SW846 9056, EN14582
Sulfate (SO_4)	SW846 9056, EN14582	SW846 9056, EN14582

International Electro technical Commission (IEC) 62321, Ed. 1.01 2008-12: "Procedures for the Determination of Levels of Six Regulated Substances (Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls, and Polybrominated Diphenyl Ethers) in Electro technical Products."

CPSC-CH-E1001-08: Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

CPSC-CH-C1001-09.3: Standard Operating Procedure for Determination of Phthalates.

CPSC-CH-E1002-08: Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products

CPSC-CH-E1003-09: Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

EN 14582: Characterization of waste. Halogen and sulfur content. Oxygen combustion in closed systems and determination methods

ASTM 1613: Determination of Lead by ICP-OES

EPA SW-846 6010C – Inductively Coupled Plasma – Atomic Emissions Spectrometry

EPA SW-846 6020A - Inductively Coupled Plasma – Mass Spectrometry

EPA SW-846 7471A – Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)

EPA SW-846 8270C – Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

Morton Grove, IL

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION
CORPORATE SEAL 1978
DISTRICT OF COLUMBIA
A2LA

Presented this 13th day of March 2012.

President & CEO
For the Accreditation Council
Certificate Number 2407.01
Valid to February 28, 2014

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.