



July 31, 2018

Laboratory ID: 100124

Robert Ross
The Hartford Risk Engineering Laboratory
1 Hartford Plaza, Asylum Ave.
Hartford, CT 06115

Dear Mr. Ross:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved The Hartford Risk Engineering Laboratory as an accredited Industrial Hygiene and Unique Scopes laboratory.

Accreditation documentation includes the IHLAP and Unique Scopes accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you.

Laboratory accreditation shall be maintained by continued compliance with IHLAP and Unique Scopes requirements (*see Policy Modules 2B, 2E, and 6*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP and Unique Scopes.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton
Managing Director



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

The Hartford Risk Engineering Laboratory

1 Hartford Plaza, Asylum Ave., Hartford, CT 06115

Laboratory ID: 100124

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|---|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: September 01, 2020 |
| <input type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: |
| <input type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input checked="" type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: September 01, 2020 |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

The Hartford Risk Engineering Laboratory

1 Hartford Plaza, Asylum Ave., Hartford, CT 06115

Laboratory ID: **100124**

Issue Date: 07/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 06/01/1975

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Chromatography Core	Gas Chromatography	GC/FID	Dow Corning Method #003-01 Modified	Octamethylcyclotetrasiloxane
			In-House Method Modified	2,3-Pentadione Union Carbide
			NIOSH 1003 Modified	
			NIOSH 1005 Modified	
			NIOSH 1006 Modified	
			NIOSH 1007 Modified	
			NIOSH 1010 Modified	
			NIOSH 1015 Modified	
			NIOSH 1019 Modified	
			NIOSH 1020 Modified	
			NIOSH 1022 Modified	
			NIOSH 1024 Modified	
			NIOSH 1300 Modified	
			NIOSH 1301 Modified	
			NIOSH 1302 Modified	
			NIOSH 1400 Modified	
			NIOSH 1401 Modified	
			NIOSH 1402 Modified	
NIOSH 1403 Modified				
NIOSH 1450 Modified				
NIOSH 1451 Modified				
NIOSH 1453 Modified				
NIOSH 1459 Modified				
IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/	Published Reference Method/Title of In-	Method Description or Analyte

Effective: 04/10/2015

100124_Scope_IHLAP_2018_07_31



	(FoTs cover all relevant IH matrices)	Detector	house Method	(for internal methods only)
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1460 Modified	
			NIOSH 1500 Modified	
			NIOSH 1501 Modified	
			NIOSH 1550 Modified	
			NIOSH 1551 Modified	
			NIOSH 1604 Modified	
			NIOSH 1606 Modified	
			NIOSH 1610 Modified	
			NIOSH 1613 Modified	
			NIOSH 1615 Modified	
			NIOSH 2000 Modified	
			NIOSH 2002 Modified	
			NIOSH 2004 Modified	
			NIOSH 2005 Modified	
			NIOSH 2007 Modified	
			NIOSH 2010 Modified	
			NIOSH 2013 Modified	
			NIOSH 2500 Modified	
			NIOSH 2505 Modified	
			NIOSH 2528 Modified	
			NIOSH 2530 Modified	
			NIOSH 2537 Modified	
			NIOSH 2552 Modified	
			NIOSH 2553 Modified	
			NIOSH 2555 Modified	
			NIOSH 2562 Modified	
			NIOSH 5020 Modified	
			NIOSH 5034 Modified	
			NIOSH 5523 Modified	
			NIOSH S-150 Modified	
Organics SOP V	Organic Analyses by Gas Chromatography			
OSHA 1004 Modified				
OSHA 103 Modified				
OSHA 113 Modified				
OSHA 29 Modified				
OSHA 35 Modified				
OSHA 59 Modified				
OSHA 72 Modified				
OSHA 80 Modified				
IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/	Published Reference Method/Title of In-	Method Description or Analyte



	(FoTs cover all relevant IH matrices)	Detector	house Method	(for internal methods only)
Chromatography Core	Gas Chromatography	GC/FID	OSHA 91	
			OSHA IMIS: R250 Modified	
			OSHA In-House Modified	Freon 134A
			OSHA In-House Modified	Formamide
			OSHA In-House Modified	Butyric Acid
			OSHA PV2003 Modified	
			OSHA PV2009 Modified	
			OSHA PV2014 Modified	
			OSHA PV2019 Modified	
			OSHA PV2020 Modified	
			OSHA PV2021 Modified	
			OSHA PV2041 Modified	
			OSHA PV2043 Modified	
			OSHA PV2047 Modified	
			OSHA PV2060 Modified	
			OSHA PV2101 Modified	
			OSHA PV2123 Modified	
			GC/ECD	NIOSH 1008 Modified
	OSHA 02 Modified			
	OSHA 1012			
	OSHA 50 Modified			
			OSHA In-House Modified	Dibromochloropropane
	GC/MS		SOP V, Appendix A	Organic Analyses by GC/MS
	Gas Chromatography (Diffusive Samplers)		SOP V, Passive Organics	3M Method In-House Passive
	Ion Chromatography (IC)		NIOSH 7906	
OSHA ID-174SG				
OSHA ID-215 Modified				
Ozone Passive Assay Technology Systems Modified				
Liquid Chromatography	HPLC/UV	Assay Technologies Passive Systems Modified	Formaldehyde	
		Assay Technologies Passive Systems Modified	Acetaldehyde Glutaraldehyde	
		NIOSH 2016 Modified		
IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/	Published Reference Method/Title of In-	Method Description or Analyte



	(FoTs cover all relevant IH matrices)	Detector	house Method	(for internal methods only)
Chromatography Core	Liquid Chromatography	HPLC/UV	NIOSH 2018 Modified	
			NIOSH 2514 Modified	
			NIOSH 2532 Modified	
			NIOSH 5004 Modified	
			NIOSH 5005 Modified	
			NIOSH 5029 Modified	
			NIOSH P&CAM 236 Modified	
			NIOSH P&CAM 333 Modified	
			OSHA 1007	
			OSHA 24 Modified	
			OSHA 28 Modified	
			OSHA 32 Modified	
			OSHA 42 Modified	
			OSHA 47 Modified	
			OSHA 64 Modified	
			OSHA PV2004 Modified	
			OSHA PV2012 Modified	
			OSHA PV2014 Modified	
			OSHA PV2034 Modified	
OSHA PV2092 Modified				
OSHA PV2111 Modified				
OSHA Stopgap Modified	Alpha-Chloroacetophenone			
Xerox In-House Modified	Cetylpyridinium Chloride			
Spectrometry Core	Atomic Absorption	CVAA	OSHA ID-140 Modified	
	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300 Modified	
			NIOSH 7301 Modified	
			NIOSH 9100 Modified	
			NIOSH S 385 Modified	
			OSHA ID-121 Modified	
			OSHA ID-125G Modified	
	X-ray Diffraction (XRD)		OSHA ID-213 Modified	
			NIOSH 7500 Modified	
	UV/VIS (Colorimetric)		OSHA ID-142 Modified	
NIOSH P&CAM 205 Modified				
			OSHA ID-188 Modified	
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)		NIOSH 7400	
IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/	Published Reference Method/Title of In-	Method Description or Analyte



	(FoTs cover all relevant IH matrices)	Detector	house Method	(for internal methods only)
Miscellaneous Core	Gravimetric		ASTM 7049-04 Modified	
			NIOSH 0500 Modified	
			NIOSH 0600 Modified	
			NIOSH 5524	
			OSHA 58 Modified	
Beryllium Testing	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300 Modified	
			NIOSH 7301 Modified	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

The Hartford Risk Engineering Laboratory

1 Hartford Plaza, Asylum Ave., Hartford, CT 06115

Laboratory ID: **100124**

Issue Date: 07/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Unique Scopes Laboratory Accreditation Program (Unique Scopes)

Initial Accreditation Date: 07/01/2014

Unique Scope Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Forensics	Fire Debris	ASTM E1412	
		ASTM E1618	

A complete listing of currently accredited Unique Scope laboratories is available on the AIHA-LAP, LLC website at:
<http://www.aihaaccreditedlabs.org>