



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PACE ANALYTICAL SERVICES, LLC – MOBILE LAB SERVICES¹

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Madison, WI 53718

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ENVIRONMENTAL

Valid To: March 31, 2024

Certificate Number: 3269.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2009 TNI Standard, and the requirements of the DoD Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in version 5.4 of the DoD/DOE Quality Systems Manual for Environmental Laboratories), accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies: Gas Chromatography, Mass Spectroscopy, XRF

<u>Analyte / Parameter</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste (Soil)</u>
<u>Pesticides-PCBs</u>		
2,4'-DDD	EPA 8081B	EPA 8081B
2,4'-DDE	EPA 8081B	EPA 8081B
2,4'-DDT	EPA 8081B	EPA 8081B
4,4'-DDD	EPA 8081B	EPA 8081B
4,4'-DDE	EPA 8081B	EPA 8081B
4,4'-DDT	EPA 8081B	EPA 8081B
Aldrin	EPA 8081B	EPA 8081B
Chlordane (tech.)	EPA 8081B	EPA 8081B
Dieldrin	EPA 8081B	EPA 8081B
Endosulfan I	EPA 8081B	EPA 8081B
Endosulfan II	EPA 8081B	EPA 8081B
Endosulfan sulfate	EPA 8081B	EPA 8081B
Endrin	EPA 8081B	EPA 8081B
Endrin aldehyde	EPA 8081B	EPA 8081B
Endrin ketone	EPA 8081B	EPA 8081B
Heptachlor	EPA 8081B	EPA 8081B
Heptachlor epoxide	EPA 8081B	EPA 8081B
Hexachlorobenzene	EPA 8081B	EPA 8081B
Methoxychlor	EPA 8081B	EPA 8081B
Mirex	EPA 8081B	EPA 8081B
Pentachloronitrobenzene	EPA 8081B	EPA 8081B
Toxaphene (Chlorinated camphene)	EPA 8081B	EPA 8081B
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B	EPA 8081B

<u>Analyte / Parameter</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste (Soil)</u>
alpha-Chlordane	EPA 8081B	EPA 8081B
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B	EPA 8081B
cis-Nonachlor	EPA 8081B	EPA 8081B
delta-BHC	EPA 8081B	EPA 8081B
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B	EPA 8081B
gamma-Chlordane	EPA 8081B	EPA 8081B
trans-Nonachlor	EPA 8081B	EPA 8081B
Aroclor-1016 (PCB-1016)	EPA 8082A	EPA 8082A
Aroclor-1221 (PCB-1221)	EPA 8082A	EPA 8082A
Aroclor-1232 (PCB-1232)	EPA 8082A	EPA 8082A
Aroclor-1242 (PCB-1242)	EPA 8082A	EPA 8082A
Aroclor-1248 (PCB-1248)	EPA 8082A	EPA 8082A
Aroclor-1254 (PCB-1254)	EPA 8082A	EPA 8082A
Aroclor-1260 (PCB-1260)	EPA 8082A	EPA 8082A
Aroclor-1262 (PCB1262)	EPA 8082A	EPA 8082A
Aroclor-1268 (PCB 1268)	EPA 8082A	EPA 8082A
<u>Explosives</u>		
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8095	EPA 8095
1,3-Dinitrobenzene (1,3-DNB)	EPA 8095	EPA 8095
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8095	EPA 8095
2,4-Dinitrotoluene (2,4-DNT)	EPA 8095	EPA 8095
2,6-Dinitrotoluene (2,6-DNT)	EPA 8095	EPA 8095
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8095	EPA 8095
2-Nitrotoluene	EPA 8095	EPA 8095
3,4-Dinitrotoluene (3,4-DNT)	EPA 8095	EPA 8095
3,5-Dinitroaniline	EPA 8095	EPA 8095
3-Nitrotoluene	EPA 8095	EPA 8095
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8095	EPA 8095
4-Nitrotoluene	EPA 8095	EPA 8095
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	EPA 8095	EPA 8095
Nitrobenzene	EPA 8095	EPA 8095
Nitroglycerin	EPA 8095	EPA 8095
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8095	EPA 8095
Pentaerythritoltetranitrate (PETN)	EPA 8095	EPA 8095
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8095	EPA 8095
<u>Volatiles</u>		
1,1,1,2-Tetrachloroethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
1,1,1-Trichloroethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM

<u>Analyte / Parameter</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste (Soil)</u>
1,1,2,2-Tetrachloroethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,1,2-Trichloro-trifluoroethane (Freon-113)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
1,1,2-Trichloroethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,1-Dichloroethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,1-Dichloroethene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,1-Dichloropropene	EPA 8260B	EPA 8260B
1,2,3-Trichlorobenzene	EPA 8260B	EPA 8260B/8260B SIM
1,2,3-Trichloropropane	EPA 8260B	EPA 8260B
1,2,4-Trichlorobenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,2,4-Trimethylbenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,2-Dichlorobenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,2-Dichloropropane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
1,3,5-Trimethylbenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,3-Dichlorobenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,3-Dichloropropane	EPA 8260B	EPA 8260B
1,3-Dichloropropene	EPA 8260B	EPA 8260B
1,4-Dichlorobenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
1,4-Dioxane (1,4- Diethyleneoxide)	EPA 8260B/8260B SIM EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
2,2-Dichloropropane	EPA 8260B	EPA 8260B
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	EPA 8260B
2-Chlorotoluene	EPA 8260B	EPA 8260B/8260B SIM
2-Hexanone	EPA 8260B	EPA 8260B
4-Chlorotoluene	EPA 8260B	EPA 8260B/8260B SIM
p-Isopropyltoluene	EPA 8260B	EPA 8260B/8260B SIM
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 8260B
Acetone	EPA 8260B	EPA 8260B

<u>Analyte / Parameter</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste (Soil)</u>
Benzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Bromobenzene	EPA 8260B	EPA 8260B
Bromochloromethane	EPA 8260B	EPA 8260B
Bromodichloromethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
Bromoform	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
Carbon disulfide	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
Carbon tetrachloride	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Chlorobenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Dibromochloromethane	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
Chloroethane (Ethyl chloride)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
Chloroform	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Diisopropylether (DIPE) (Isopropyl ether)	EPA 8260B	EPA 8260B
Dibromomethane (Methylene bromide)	EPA 8260B	EPA 8260B
Dichlorodifluoromethane (Freon-12)	EPA 8260B	EPA 8260B
Ethylbenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Gasoline Range Organics	EPA 8260B	EPA 8260B
Hexachlorobutadiene	EPA 8260B	EPA 8260B
Isopropylbenzene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Methyl bromide (Bromomethane)	EPA 8260B	EPA 8260B
Methyl chloride (Chloromethane)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Methylcyclohexane	EPA 8260D SPME SIM	EPA 8260D SPME SIM
Methyl t-butyl ether (MTBE)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
Methylene chloride (Dichloromethane)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Naphthalene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Styrene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Tetrachloroethene (Perchloroethylene)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Tetrahydrofuran (THF)	EPA 8260B	EPA 8260B
Toluene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM

<u>Analyte / Parameter</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste (Soil)</u>
Trichloroethene (Trichloroethylene)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Trichlorofluoromethane (Fluorotrichloromethane, Freon-11)	EPA 8260B	EPA 8260B
Vinyl chloride	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
Xylene (total)	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
cis-1,2-Dichloroethene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
cis-1,3-Dichloropropene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
m,p-Xylene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
n-Butylbenzene	EPA 8260B	EPA 8260B/8260B SIM
n-Hexane	EPA 8260B	EPA 8260B
n-Propylbenzene	EPA 8260B	EPA 8260B/8260B SIM
o-Xylene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
sec-Butylbenzene	EPA 8260B	EPA 8260B/8260B SIM
tert-Butylbenzene	EPA 8260B	EPA 8260B/8260B SIM
trans-1,2-Dichloroethene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B/8260B SIM EPA 8260D SPME SIM
trans-1,3-Dichloropropene	EPA 8260B EPA 8260D SPME SIM	EPA 8260B EPA 8260D SPME SIM
<u>Semi-Volatiles (PAHs)</u>		
Acenaphthene	-----	EPA 8270D
Acenaphthylene	-----	EPA 8270D
Anthracene	-----	EPA 8270D
Benzo(a)anthracene	-----	EPA 8270D
Benzo(a)pyrene	-----	EPA 8270D
Benzo(b)fluoranthene	-----	EPA 8270D
Benzo(e)pyrene	-----	EPA 8270D
Benzo(g,h,i)perylene	-----	EPA 8270D
Benzo(k)fluoranthene	-----	EPA 8270D
Chrysene	-----	EPA 8270D
Dibenz(a,h)anthracene	-----	EPA 8270D
Fluoranthene	-----	EPA 8270D
Fluorene	-----	EPA 8270D
Indeno(1,2,3-cd)pyrene	-----	EPA 8270D
1-Methylnaphthalene	-----	EPA 8270D
2-Methylnaphthalene	-----	EPA 8270D
Naphthalene	-----	EPA 8270D
Phenanthrene	-----	EPA 8270D
Pyrene	-----	EPA 8270D

<u>Analyte / Parameter</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste (Soil)</u>
PAHs		
Acenaphthene	EPA 8270D SIM	EPA 8270D SIM
Acenaphthylene	EPA 8270D SIM	EPA 8270D SIM
Anthracene	EPA 8270D SIM	EPA 8270D SIM
Benzo(a)anthracene	EPA 8270D SIM	EPA 8270D SIM
Benzo(a)pyrene	EPA 8270D SIM	EPA 8270D SIM
Benzo(b)fluoranthene	EPA 8270D SIM	EPA 8270D SIM
Benzo(e)pyrene	EPA 8270D SIM	EPA 8270D SIM
Benzo(g,h,i)perylene	EPA 8270D SIM	EPA 8270D SIM
Benzo(k)fluoranthene	EPA 8270D SIM	EPA 8270D SIM
Chrysene	EPA 8270D SIM	EPA 8270D SIM
Dibenz(a,h) anthracene	EPA 8270D SIM	EPA 8270D SIM
Fluoranthene	EPA 8270D SIM	EPA 8270D SIM
Fluorene	EPA 8270D SIM	EPA 8270D SIM
Indeno(1,2,3-cd) pyrene	EPA 8270D SIM	EPA 8270D SIM
Naphthalene	EPA 8270D SIM	EPA 8270D SIM
Phenanthrene	EPA 8270D SIM	EPA 8270D SIM
Pyrene	EPA 8270D SIM	EPA 8270D SIM
1-Methylnaphthalene	EPA 8270D SIM	EPA 8270D SIM
2-Methylnaphthalene	EPA 8270D SIM	EPA 8270D SIM
Metals		
Antimony	_____	EPA 6200
Arsenic	_____	EPA 6200
Cadmium	_____	EPA 6200
Chromium	_____	EPA 6200
Cobalt	_____	EPA 6200
Copper	_____	EPA 6200
Lead	_____	EPA 6200
Mercury	_____	EPA 6200
Nickel	_____	EPA 6200
Selenium	_____	EPA 6200
Silver	_____	EPA 6200
Thallium	_____	EPA 6200
Vanadium	_____	EPA 6200
Zinc	_____	EPA 6200

¹Testing is performed in both fixed based lab and mobile laboratories.

Preparation Methods

<u>Analytical Method</u>	<u>Water Preparation Method(s)</u>	<u>Soil Preparation Method(s)</u>
EPA 8081B	EPA 3511/3580A/3665A	EPA 3570/3580A/3665A
EPA 8082A	EPA 3511/3580A/3665A	EPA 3570/3580A/3665A
EPA 8095	EPA 3511/3580A	EPA 3570/3580A
EPA 8260B	EPA 5030B/ASTM 6520	EPA 5035
EPA 8260D	ASTM 6520	ASTM 6520
EPA 8270D	EPA 3511/3580A	EPA 3570





Accredited Laboratory

A2LA has accredited

PACE ANALYTICAL SERVICES, LLC – MOBILE LAB SERVICES

Madison, WI

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2009 TNI Environmental Testing Laboratory Standard, and the requirements of the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in version 5.4 of the DoD/DOE Quality System Manual for Environmental Laboratories (QSM), accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 30th day of March 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3269.01
Valid to March 31, 2024