



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER  
 Biggs Laboratory, Wadsworth Center  
 NYS Department of Health, Empire State Plaza, D224  
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PROFICIENCY TESTING PROVIDER

Valid To: February 28, 2019

Certificate Number: 1785.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this proficiency testing provider for the design, preparation, and operation of PT schemes that meet the requirements of ISO/IEC 17043 and Volume 3: General Requirements for Environmental Proficiency Test Providers (EL-V3-2009):

<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
<u>Metals</u>					
Aluminum	√	√	√	√	
Antimony	√	√	√	√	
Arsenic	√	√	√	√	
Barium	√	√	√	√	
Beryllium	√	√	√	√	
Boron	√	√	√		
Cadmium	√	√	√	√	
Calcium* see Minerals Category			√		
Chromium (total)	√	√	√	√	
Chromium (VI)	√	√	√	√	
Cobalt		√	√	√	
Copper	√	√	√	√	
Iron	√	√	√	√	
Lead	√	√	√	√	√
Lead in Wipes			√		
Lead in Paint			√		
Magnesium* see Minerals Category			√		
Manganese	√	√	√	√	
Mercury	√	√	√	√	
Mercury (Low Level)		√		√	
Molybdenum	√	√	√	√	
Nickel	√	√	√	√	
Potassium* see Minerals Category			√		
Selenium	√	√	√	√	
Silver	√	√	√	√	

<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Sodium* see Minerals Category			√		
Strontium		√	√		
Thallium	√	√	√	√	
Tin		√	√		
Titanium		√			
Uranium	√				
Vanadium	√	√	√	√	
Zinc	√	√	√	√	
<u>Nutrients</u>					
Ammonia (as N)		√		√	
Nitrate (as N)	√	√	√	√	
Nitrate-nitrite (as N)	√	√			
Nitrite (as N)	√	√		√	
Orthophosphate (as P)	√	√		√	
Total Kjeldahl-nitrogen		√		√	
Total phosphorus		√		√	
<u>Demands</u>					
Biochemical oxygen demand		√		√	
Carbonaceous biochemical oxygen demand		√		√	
Chemical oxygen demand		√		√	
Total organic carbon	√	√		√	
<u>Minerals</u>					
Acidity (as CaCO <sub>3</sub> )		√			
Alkalinity, total (CaCO <sub>3</sub> )	√	√		√	
Bromide	√	√	√		
Calcium	√	√	√		
Chloride	√	√	√	√	
Fluoride	√	√	√	√	
Calcium hardness (as CaCO <sub>3</sub> )	√	√			
Hardness, total (CaCO <sub>3</sub> )	√	√		√	
Magnesium	√	√			
Potassium	√	√			
Sodium	√	√			
Specific conductance (25°C)	√	√		√	
Sulfate	√	√	√	√	
Sulfide (as S)		√			
Total dissolved solids – *see Total filterable residue		√		√	
Total solids		√			
Volatile solids		√			
<u>Miscellaneous Analytes</u>					
Bromate	√				
Chlorate	√				
Chlorite	√				



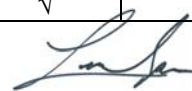
<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Color		√			
Cyanide	√				
*Total filterable residue	√	√			
Non-filterable residue		√		√	
Oil & Grease		√	√	√	
Corrosivity	√		√		
Silica (as SiO <sub>2</sub> )	√	√			
Surfactants - MBAS	√	√			
Total cyanide		√	√	√	
Total petroleum hydrocarbons		√			
Total phenolics (4AAP)		√		√	
Turbidity	√	√		√	
UV 254	√				
Settleable solids		√		√	
Perchlorate	√				
Ignitability			√		
<u>Microbiology</u>					
Heterotrophic plate count (HPC)	√				
Fecal coliform		√		√	
Total coliform/E. coli (Qualitative)	√				
Total coliform (Enumeration)		√		√	
Enterococcus		√			
<i>Escherichia coli</i> (Enumeration)	√	√			
<u>Volatiles</u>					
Acetone		√	√		
Benzene	√	√	√		
Bromobenzene	√	√	√		
Bromochloromethane	√				
Bromodichloromethane	√	√	√		
Bromoform	√	√	√		
Bromomethane	√	√	√		
2-Butanone (Methyl ethyl ketone)			√		
n-Butylbenzene	√				
sec-Butylbenzene	√				
tert-Butylbenzene	√				
Carbon tetrachloride	√	√	√		
Chlorobenzene	√	√	√		
Chloroethane	√	√	√		
Chloromethane	√	√	√		
Chloroform	√	√	√		
1,2-Dibromo-3-chloropropane (DBCP)	√	√	√		
2-Chlorotoluene	√				

<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
4-Chlorotoluene	√				
Dibromochloromethane	√	√	√		
1,2-Dibromoethane (EDB)	√	√	√		
Dibromomethane	√	√	√		
1,2-Dichlorobenzene	√	√	√		
1,3-Dichlorobenzene	√	√	√		
1,4-Dichlorobenzene	√	√	√		
Dichlorodifluoromethane	√	√	√		
1,1-Dichloroethane	√	√	√		
1,2-Dichloroethane	√	√	√		
1,1-Dichloroethene	√	√	√		
cis-1,2-Dichloroethene	√	√	√		
trans-1,2-Dichloroethene	√	√	√		
1,2-Dichloropropane	√	√	√		
1,3-Dichloropropane	√	√	√		
2,2-Dichloropropane	√	√	√		
cis-1,3-Dichloropropene	√	√	√		
1,1-Dichloropropene	√	√	√		
trans-1,3-Dichloropropene	√	√	√		
Ethylbenzene	√	√	√		
Hexachlorobutadiene	√	√	√		
2-Hexanone		√	√		
Isopropylbenzene	√	√	√		
4-Isopropyltoluene	√	√	√		
Methylene chloride	√	√	√		
4-Methyl-2-pentanone (MIBK)		√	√		
Methyl-tert butyl Ether	√	√	√		
Naphthalene	√	√	√		
n-Propylbenzene	√	√	√		
Styrene	√	√	√		
1,1,1,2-Tetrachloroethane	√	√	√		
1,1,2,2-Tetrachloroethane	√	√	√		
Tetrachloroethene	√	√	√		
Toluene	√	√	√		
1,2,3-Trichlorobenzene	√	√	√		
1,2,4-Trichlorobenzene	√	√	√		
1,1,1-Trichloroethane	√	√	√		
1,1,2-Trichloroethane	√	√	√		
Trichloroethene	√	√	√		
Trichlorofluoromethane	√	√	√		
1,2,3-Trichloropropane	√	√	√		
1,2,4-Trimethylbenzene	√	√	√		
1,3,5-Trimethylbenzene	√	√	√		

<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Vinyl chloride	√	√	√		
Xylenes, total	√	√	√		
m/p-Xylene		√			
o-Xylene		√			
<u>Semivolatiles</u>					
Acenaphthene		√	√		
Acenaphthylene		√	√		
Anthracene		√	√		
Benzo (a) anthracene		√	√		
Benzo (b) fluoranthene		√	√		
Benzo (k) fluoranthene		√	√		
Benzo (ghi) perylene		√	√		
Benzo (a) pyrene	√	√	√		
Benzylbutylphthalate		√	√		
bis (2-chloroethoxy) methane		√	√		
bis (2-chloroethyl) ether		√	√		
2,2'-Oxybis(1-chloropropane)		√	√		
bis (2-ethylhexyl) phthalate	√	√	√		
4-Bromophenyl-phenylether		√	√		
4-Chloro-3-methylphenol		√	√		
2-Chloronaphthalene		√	√		
2-Chlorophenol		√	√		
4-Chlorophenyl phenyl ether		√	√		
Chrysene		√	√		
Dibenzo (a,h) anthracene		√	√		
Dibenzofuran		√	√		
2,4-Dichlorophenol		√	√		
2,6-Dichlorophenol		√	√		
Diethylphthalate		√	√		
2,4-Dimethylphenol		√	√		
Dimethylphthalate		√	√		
Di-n-butylphthalate		√	√		
2,4-Dinitrophenol		√	√		
2,4-Dinitrotoluene		√	√		
2,6-Dinitrotoluene		√	√		
Di-n-octylphthalate		√	√		
1,2-Dichlorobenzene		√	√		
1,3-Dichlorobenzene		√	√		
1,4-Dichlorobenzene		√	√		
Di (2-ethylhexyl) adipate	√				
Fluoroanthene		√	√		
Fluorene		√	√		



<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Hexachlorobenzene		√	√		
Hexachlorobutadiene	√	√	√		
Hexachlorocyclopentadiene	√	√			
Hexachloroethane		√	√		
Indeno (1,2,3-cd) pyrene		√	√		
Isophorone		√	√		
2-Methyl-4,6-Dinitrophenol		√	√		
2-Methylnaphthalene		√	√		
2-Methylphenol (o-Cresol)		√	√		
4-Methylphenol (p-Cresol)		√	√		
Naphthalene		√	√		
Nitrobenzene		√	√		
2-Nitrophenol		√	√		
4-Nitrophenol		√	√		
n-Nitrosodimethylamine		√			
n-Nitrosodiphenylamine		√			
n-Nitroso-di-n-propylamine		√	√		
Pentachlorophenol		√	√		
Phenanthrene		√	√		
Phenol		√	√		
Pyrene		√	√		
1,2,3-Trichlorobenzene	√	√	√		
1,2,4-Trichlorobenzene		√	√		
2,4,5-Trichlorophenol		√	√		
2,4,6-Trichlorophenol		√	√		
<u>Organic Disinfection By-Products</u>					
Monochloroacetic Acid	√				
Bromochloroacetic Acid	√				
Dibromoacetic Acid	√				
Dichloroacetic Acid	√				
Monobromoacetic Acid	√				
Trichloroacetic Acid	√				
<u>PCBs</u>					
PCBs as decachlorobiphenyl	√				
PCB Aroclor Identification	√				
Aroclor 1016		√	√		
Aroclor 1221		√	√		
Aroclor 1232		√	√		
Aroclor 1242		√	√		
Aroclor 1248		√	√		
Aroclor 1254		√	√		
Aroclor 1260		√	√		



<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
<u>PCBs in Oil</u>					
Aroclor 1016			√		
Aroclor 1221			√		
Aroclor 1232			√		
Aroclor 1242			√		
Aroclor 1248			√		
Aroclor 1254			√		
Aroclor 1260			√		
<u>Carbamates &amp; Vydate</u>					
Aldicarb	√				
Aldicarb Sulfone	√				
Aldicarb Sulfoxide	√				
Carbaryl	√				
Carbofuran	√				
3-Hydroxycarbofuran	√				
Methomyl	√				
Oxamyl (Vydate)	√				
<u>Pesticides</u>					
Alachlor	√				
Aldrin	√	√	√		
Atrazine	√				
alpha-BHC		√	√		
beta-BHC		√	√		
delta-BHC		√	√		
gamma-BHC (Lindane)	√	√	√		
Butachlor	√				
Chlordane (technical)	√	√	√		
alpha-Chlordane		√	√		
gamma-Chlordane		√	√		
DDD (4,4)		√	√		
DDE (4,4)		√	√		
DDT (4,4)		√	√		
Dieldrin	√	√	√		
Endosulfan I		√	√		
Endosulfan II		√	√		
Endosulfan sulfate		√	√		
Endrin	√	√	√		
Endrin aldehyde		√	√		
Endrin ketone		√	√		
Heptachlor	√	√	√		
Heptachlor epoxide (beta)	√	√	√		

<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Hexachlorobenzene	√	√	√		
Hexachlorocyclopentadiene	√	√			
Methoxychlor	√	√	√		
Metolachlor	√				
Metribuzin	√				
Propachlor	√				
Simazine	√				
Toxaphene	√	√	√		
Trifluralin (Treflan)	√				
<u>Herbicides</u>					
Acifluorfen	√				
2,4-D	√	√	√		
2,4-DB			√		
Dalapon	√				
Dicamba	√	√	√		
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	√		√		
Diquat	√				
Endothall	√				
Glyphosate	√				
Paraquat	√				
Pentachlorophenol	√		√		
Picloram	√				
2,4,5-TP (Silvex)	√	√	√		
2,4,5-T	√	√	√		
<u>Petroleum Hydrocarbons</u>					
Diesel range organics (DRO)		√	√		
Gasoline range organics (GRO)		√	√		
<u>Asbestos</u>					
Asbestos in Air (TEM)					√
Fiber in Air (PCM)					√
Asbestos (TEM)	√		√		√
Asbestos (PLM)			√		
<u>Radiochemistry</u>					
Gross alpha	√				
Gross beta	√				
Iodine-131	√				
Radium-226	√				
Radium-228	√				
Natural Uranium	√				



<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Strontium-89	√				
Strontium-90	√				
Tritium	√				
<u>Gamma Emitters</u>					
Barium-133	√				
Cesium-134	√				
Cesium-137	√				
Cobalt-60	√				
Zinc-65	√				
<u>Low Level PAHs</u>					
Acenaphthene		√	√		
Acenaphthylene		√	√		
Anthracene		√	√		
Benzo(a)anthracene		√	√		
Benzo(b)fluoranthene		√	√		
Benzo(k)fluoranthene		√	√		
Benzo(g,h,i)perylene		√	√		
Benzo(a)pyrene		√	√		
Chrysene		√	√		
Dibenzo(a,h)anthracene		√	√		
Fluoranthene		√	√		
Fluorene		√	√		
Indeno(1,2,3-cd)pyrene		√	√		
Naphthalene		√	√		
Phenanthrene		√	√		
Pyrene		√	√		
<u>Low Level Volatiles</u>					
1,2-Dibromoethane (EDB)	√	√			
1,2-Dibromo-3-chloropropane (DBCP)	√	√			
1,2,3-Trichloropropane		√			
<u>Medium Level Volatiles</u>					
Acetone			√		
Benzene			√		
Bromodichloromethane			√		
Bromoform			√		
2-Butanone (Methyl ethyl ketone)			√		
Carbon tetrachloride			√		
Chlorobenzene			√		
Chloroform			√		
1,2-Dibromo-3-chloropropane (DBCP)			√		



<u>Parameter/Analyte</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>DMRQA</u>	<u>Air</u>
Dibromochloromethane			√		
1,2-Dibromoethane (EDB)			√		
Dibromomethane			√		
1,2-Dichlorobenzene			√		
1,3-Dichlorobenzene			√		
1,4-Dichlorobenzene			√		
1,1-Dichloroethane			√		
1,2-Dichloroethane			√		
1,1-Dichloroethene			√		
cis-1,2-Dichloroethene			√		
trans-1,2-Dichloroethene			√		
cis-1,3-Dichloropropane			√		
trans-1,3-Dichloropropane			√		
1,2-Dichloropropane			√		
Ethylbenzene			√		
2-Hexanone			√		
Methylene chloride			√		
4-Methyl-2-pentanone (MIBK)			√		
Methyl-tert butyl Ether			√		
Naphthalene			√		
Styrene			√		
1,1,1,2-Tetrachloroethane			√		
1,1,2,2-Tetrachloroethane			√		
Tetrachloroethene			√		
Toluene			√		
1,2,4-Trichlorobenzene			√		
1,1,1-Trichloroethane			√		
1,1,2-Trichloroethane			√		
Trichloroethene			√		
1,2,3-Trichloropropane			√		
Xylenes, total			√		

Techniques used to determine assigned values and its uncertainty (as applicable) from Annex B of ISO/IEC 17043:

**Drinking Water: Chemistry and Qualitative Bacteriology:** known values – with results determined by specific proficiency test item formulation (e.g. manufacture or dilution).

**Drinking Water: Asbestos and Quantitative (enumerative) Bacteriology:** consensus values from participants – using statistical methods described in ISO 13528 and the IUPAC International Harmonized Protocol, and with consideration of the effects of outliers.



**Non-potable Water: Chemistry, DMRQA and Quantitative (enumerative) Bacteriology:** known values – with results determined by specific proficiency test item formulation (e.g. manufacture or dilution).

**Non-potable Water: Quantitative (enumerative) Bacteriology:** consensus values from participants – using statistical methods described in ISO 13528 and the IUPAC International Harmonized Protocol, and with consideration of the effects of outliers.

**Solid & Chemical Materials: Chemistry:** consensus values from participants – using statistical methods described in ISO 13528 and the IUPAC International Harmonized Protocol, and with consideration of the effects of outliers.

**Solid & Chemical Materials: Corrosivity(pH) and Ignitability (Flashpoint):** known values – with results determined by specific proficiency test item formulation (e.g. manufacture or dilution).

**Air: Asbestos and Lead:** consensus values from participants – using statistical methods described in ISO 13528 and the IUPAC International Harmonized Protocol, and with consideration of the effects of outliers.



## *Accredited Proficiency Testing Provider*

A2LA has accredited

### **NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER**

*Albany, NY*

This accreditation covers the specific proficiency testing schemes listed on the agreed upon Scope of Accreditation.

This provider is accredited in accordance with the recognized International Standard ISO/IEC 17043: 2010 *Conformity assessment - General requirements for proficiency testing*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 20<sup>th</sup> day of March 2017.

President and CEO  
For the Accreditation Council  
Certificate Number 1785.01  
Valid to February 28, 2019  
Revised: November 21, 2018

*For the proficiency testing schemes to which this accreditation applies, please refer to the provider's Scope of Accreditation.*