



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

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PROFICIENCY TESTING PROVIDER

Valid To: September 30, 2020

Certificate Number: 2427.01

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 TNI Volume 3: General Requirements For Environmental Proficiency Test Providers (EL-V3-2011):

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
<u>Metals</u>						
Aluminum	√	√	√		√	
Antimony	√	√	√		√	
Arsenic	√	√	√		√	
Barium	√	√	√		√	
Beryllium	√	√	√		√	
Boron	√	√	√		√	
Cadmium	√	√	√		√	
Calcium	√	√	√		√	
Chromium (total)	√	√	√		√	
Chromium (VI)	√	√	√		√	
Cobalt	√	√	√		√	
Copper	√	√	√		√	
Iron	√	√	√		√	
Lead	√	√	√		√	
Magnesium	√	√	√		√	
Manganese	√	√	√		√	
Mercury	√	√	√		√	
Molybdenum	√	√	√		√	
Nickel	√	√	√		√	
Potassium	√	√	√		√	
Selenium	√	√	√		√	
Silicon	√	√				
Silver	√	√	√		√	
Sodium	√	√	√		√	

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Strontium	√	√	√		√	
Thallium	√	√	√		√	
Tin	√	√	√			
Titanium	√	√	√			
Uranium	√	√	√			
Vanadium	√	√	√		√	
Lithium		√				
Zinc	√	√	√		√	
<u>Nutrients</u>						
Ammonia (As N)	√	√	√		√	
Nitrate (As N)	√	√	√		√	
Nitrate-Nitrite (As N)	√	√	√		√	
Nitrite (As N)	√	√	√		√	
Orthophosphate (As P)	√	√	√		√	
Total Kjeldahl-Nitrogen	√	√	√		√	
Total Nitrogen		√				
Total Phosphorus	√	√	√		√	
Dissolved Phosphorus		√				
Total Nitrogen		√				
Dissolved Nitrogen		√				
<u>Demands</u>						
Biochemical Oxygen Demand (BOD)	√	√			√	
Carbonaceous BOD	√	√			√	
Chemical Oxygen Demand (COD)	√	√			√	
Dissolved Organic Carbon (DOC)	√	√				
Total Organic Carbon (TOC)	√	√	√		√	
<u>Minerals</u>						
Alkalinity, Total As (CaCO ₃)	√	√			√	
Calcium	√	√	√			
Chloride	√	√	√		√	
Fluoride	√	√	√		√	
Calcium Hardness As (CaCO ₃)	√	√			√	
Hardness, Total (CaCO ₃)	√	√			√	
Magnesium	√	√	√		√	
Potassium	√	√	√		√	
Sodium	√	√	√		√	
Specific Conductance (25°C)	√	√	√		√	

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Sulfate	√	√	√		√	
Sulfide		√	√			
Total Dissolved Solids At 180°C	√	√			√	
Total Solids		√	√		√	
<u>Microbiology</u>						
Fecal Coliform, MF	√	√	√		√	
<i>Escherichia Coli</i> , MF	√	√	√		√	
Total Coliform, MF	√	√	√		√	
Enterococci, MF	√	√	√		√	
<i>E. Coli</i> , Mpn	√	√	√		√	
Fecal Coliform, MPN	√	√	√		√	
Total Coliform, MPN	√	√	√		√	
Enterococci, MPN	√	√	√		√	
Total Coliform, P/A	√	√			√	
Fecal Coliform, P/A	√	√			√	
<i>E. Coli</i> , P/A	√	√			√	
Heterotrophic Plate Count, (Mf, Pp)	√	√			√	
Heterotrophic Plate Count, (Mpn)	√	√			√	
Fecal Streptococci, Mf	√	√			√	
Fecal Streptococci, Mpn	√	√			√	
<u>Miscellaneous Analytes</u>						
Acidity, as CaCO ₃		√				
Bromate	√					
Bromide	√	√	√			
Chlorate	√					
Chlorite	√					
Color	√	√				
Corrosivity	√		√			
Cyanide	√	√	√		√	
Glycols		√	√			
Reactive cyanide			√			
Residual free chlorine	√	√			√	
Total residual chlorine	√	√			√	
Total filterable residue	√	√				
Non-filterable residue (TSS)	√	√			√	
HEM		√	√		√	
SGT-HEM		√	√		√	
Ignitability/Flash Point			√			
Langelier index	√					

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
Oil & grease		√	√		√	
Perchlorate	√	√	√			
UV254	√					
pH	√	√	√		√	
Settleable solids		√			√	
Silica as SiO ₂	√	√				
Sulfate	√	√			√	
Reactive sulfide			√			
Total sulfide		√	√			
Sand, Silt and Clay			√			
Particle Size			√			
Surfactants - MBAS	√	√				
Total cyanide	√	√	√		√	
Total inorganic carbon	√	√				
Total organic halides (TOX)	√	√	√			
Total petroleum hydrocarbons (TPH)		√	√			
Total phenolics (4AAP)		√			√	
Turbidity	√	√			√	
Volatile solids	√	√	√		√	
Volatile suspended solids	√	√			√	
Dissolved oxygen		√				
<u>Volatiles</u>						
Acetone		√	√	√		
Acetonitrile		√	√	√		
Acrolein		√	√			
Acrylonitrile		√	√			
Benzene	√	√	√	√		
Bromobenzene	√	√	√			
Bromochloromethane	√	√	√			
Bromodichloromethane	√	√	√			
Bromoform	√	√	√			
1-Butanol				√		
2-Butanol				√		
2-Butanone (MEK)		√	√			
tert-Butyl alcohol	√	√	√			
n-Butylbenzene	√	√	√			
sec-Butylbenzene	√	√	√			
tert-Butylbenzene	√	√	√			
Carbon disulfide		√	√			
Carbon tetrachloride	√	√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Chloroacetaldehyde		√	√			
Chlorobenzene	√	√	√			
Chloroethane	√	√	√			
Chloroethene	√	√	√			
Chlorodibromomethane	√	√	√			
2-Chloroethylvinylether		√	√			
Chloroform	√	√	√	√		
Cumene				√		
Cyclohexane				√		
1,2-Dibromo-3-chloropropane (DBCP)	√	√	√			
2-Chlorotoluene	√	√	√			
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	√	√	√			
1,2-Dichloropropane	√	√	√			
1,3-Dichloropropane	√	√	√			
2,2-Dichloropropane	√	√	√			
1,1-Dichloropropene	√	√	√			
cis-1,3-Dichloropropene	√	√	√			
trans-1,3-Dichloropropene	√	√	√			
trans-1,2-Dichloroethlene	√	√	√			
trans-1,2-Dichloroethylene	√	√	√			
N,N-dimethylacetamide				√		
2,2-Dimethylbutane				√		
2,3-Dimethylbutane				√		
N,N-dimethylformamide				√		
1,2-Dimethoxyethane				√		
Dimethyl sulfoxide				√		
1,4-Dioxane	√	√	√	√		
Ethanol				√		
Ethyl acetate				√		
Ethylbenzene	√	√	√	√		

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Ethyl-t-butylether (ETBE)	√	√	√			
Ethyl ether				√		
Ethylene glycol				√		
Ethylene Oxide				√		
2-Ethoxyethanol				√		
Formaldehyde	√	√	√			
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	√	√	√			
Freon 11	√	√	√			
n-Heptane				√		
n-Hexane				√		
2-Hexanone		√	√			
Hexachlorobutadiene	√	√	√			
Hexachloroethane		√	√			
Di-n-butylphthalate	√					
Isopropyl acetate				√		
Isopropylbenzene	√	√	√			
4-Isopropyltoluene	√	√	√			
Bromomethane	√	√	√			
Chloromethane	√	√	√			
Methylene chloride	√	√	√	√		
Methylethyl ketone				√		
2-Methylpentane				√		
3-Methylpentane				√		
4-Methyl-2-pentanone (MIBK)		√	√			
Methyl tert-butyl ether (MTBE)	√	√	√			
Naphthalene	√	√	√			
Naphtha				√		
Nitrobenzene	√	√	√			
Petroleum Ether				√		
n-Pentane				√		
1-Pentanol				√		
1-Propanol				√		
2-Propanol (IPA)				√		
n-Propylbenzene	√	√	√			
Pyridine		√	√	√		
Styrene	√	√	√			
Sulfolane				√		
Total THMs	√	√	√			
1,1,1,2-Tetrachloroethane	√	√	√			
1,1,2,2-Tetrachloroethane	√	√	√			
Tetrachloroethene	√	√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Tetrahydrofuran				√		
Toluene	√	√	√	√		
1,1,1-Trichloroethane	√	√	√			
1,1,2-Trichloroethane	√	√	√			
Trichloroethene	√	√	√	√		
Trichlorofluoromethane	√	√	√			
1,2,3-Trichloropropane	√	√	√			
1,2,4-Trimethylbenzene	√	√	√			
1,3,5-Trimethylbenzene	√	√	√			
TAME	√	√	√			
1,2,3-trichlorobenzene	√	√	√			
1,2,4-trichlorobenzene	√	√	√			
Vinyl acetate		√	√			
Vinyl chloride	√	√	√			
m+p-Xylene	√	√	√	√		
o-Xylene	√	√	√	√		
Xylenes, total	√	√	√	√		
Di-isopropylether (DIPE)	√	√	√			
<u>Semivolatiles</u>						
Acenaphthene	√	√	√			
Acenaphthylene	√	√	√			
Acetophenone		√				
2-Amino-1-methylbenzene		√	√			
Aniline		√	√			
Anthracene	√	√	√			
Benzidine		√	√			
Benzoic acid		√	√			
Benzo (a) anthracene	√	√	√			
Benzo (b) fluoranthene	√	√	√			
Benzo (k) fluoranthene	√	√	√			
Benzo (ghi) perylene	√	√	√			
Benzo (a) pyrene	√	√	√			
Benzotrichloride		√	√			
Benzyl alcohol		√	√			
Benzyl chloride		√	√			
Biphenyl		√	√			
Bis (2-chloroethoxy) methane		√	√			
Bis (2-chloroethoxy) ether		√	√			
Bis (2-chloroisopropyl) ether		√	√			
4-Bromophenyl-phenylether		√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Benzo butyl phthalate	√	√	√			
Carbazole		√	√			
4-Chloroaniline		√	√			
4-Chloro-3-methylphenol		√	√			
1-Chloronaphthalene		√	√			
2-Chloronaphthalene		√	√			
2-Chlorophenol		√	√			
4-Chlorophenyl phenyl ether		√	√			
2-Chlorophenyl-4-nitrophenylether			√			
3-Chlorophenyl-4-nitrophenylether			√			
4-Chlorophenyl-4-nitrophenylether			√			
Diamylphthalate			√			
Chrysene	√	√	√			
Diamylphthalate			√			
Dibenzo(a,h) anthracene	√	√	√			
Dibenzofuran		√	√			
2,4-Dibromophenyl-4-nitrophenylether			√			
1,2-Dichlorobenzene		√	√			
1,3-Dichlorobenzene		√	√			
1,4-Dichlorobenzene		√	√			
3,3'-Dichlorobenzidine		√	√			
2,4-Dichlorophenol		√	√			
2,6-Dichlorophenol		√	√			
2,4-Dichlorophenyl-3-methyl-4-nitrophenylether			√			
2,3-Dichlorophenyl-4-nitrophenylether			√			
2,4-Dichlorophenyl-4-nitrophenylether			√			
2,5-Dichlorophenyl-4-nitrophenylether			√			
2,6-Dichlorophenyl-4-nitrophenylether			√			
3,4-Dichlorophenyl-4-nitrophenylether			√			
3,5-Dichlorophenyl-4-nitrophenylether			√			
Dicyclohexylphthalate			√			
Diethylphthalate	√	√	√			
Dinonylphthalate			√			
2,4-Dimethylphenol		√	√			
Dimethylphthalate	√	√	√			
2,4-Dinitroanisole		√	√			

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
1,3-Dinitrobenzene		√	√			
1,4-Dinitrobenzene		√	√			
2,4-Dinitrophenol		√	√			
2,4-Dinitrotoluene		√	√			
2,6-Dinitrotoluene		√	√			
Di-n-butylphthalate	√	√	√			
Di-n-octylphthalate	√	√	√			
Bis (2-ethylhexyl) phthalate	√	√	√			
Di (2-Ethylhexyl) adipate	√	√	√			
Fluoroanthene	√	√	√			
Fluorene	√	√	√			
Hexachlorobenzene		√	√			
Hexachlorobutadiene		√	√			
Hexachlorocyclohexane			√			
Hexachloroethane		√	√			
Hexachlorocyclopentadiene		√	√			
Hexyl-2-ethylhexylphthalate			√			
Indeno (1,2,3-cd) pyrene	√	√	√			
Isophorone		√	√			
Maleic anhydride			√			
Bis-(2-methoxyethyl) phthalate			√			
2-Methyl-4,6-Dinitrophenol		√	√			
1-Methylnaphthalene	√	√				
2-Methylnaphthalene	√	√	√			
2-Methylphenol (o-Cresol)		√	√			
3-Methylphenol		√	√			
4-Methylphenol (p-Cresol)		√	√			
Tetryl (methyl-2,4,6-trinitrophenylnitramine)		√	√			
Naphthalene	√	√	√			
1,4-Naphthoquinone		√	√			
Napropamide		√				
2-Nitroaniline		√	√			
3-Nitroaniline		√	√			
4-Nitroaniline		√	√			
Nitrobenzene		√	√			
Nitroguanidine		√	√			
2-Nitrophenol		√	√			
3-Nitrophenol		√	√			
4-Nitrophenol		√	√			
4-Nitrophenylphenylether			√			
N-Nitrosodipropylamine		√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
N-Nitrosodimethylamine		√	√			
N-Nitrosodiphenylamine		√	√			
N-Nitrosodiethylamine		√	√			
N-Nitroso-di-n-propylamine		√	√			
2,2'-Oxybis(1-Chloropropane)		√	√			
Pentachlorobenzene		√	√			
Pentachlorohexane		√	√			
Pentachloronitrobenzene			√	√		
Pentachlorophenol		√	√			
Phenanthrene	√	√	√			
Phenol		√	√			
Pronamide		√				
Pyrene	√	√	√			
Pyridine		√	√			
1,2,3,4-Tetrachlorobenzene		√	√			
1,2,3,5-Tetrachlorobenzene		√	√			
1,2,4,5-Tetrachlorobenzene		√	√			
2,3,4,5-Tetrachlorophenol		√	√			
2,3,4,6-Tetrachlorophenol		√	√			
2,3,5,6-Tetrachlorophenol		√	√			
1,2,4-Trichlorobenzene		√	√			
1,3,5-Trichlorobenzene		√	√			
2,4,5-Trichlorophenol		√	√			
2,4,6-Trichlorophenol		√	√			
2,3,4-Trichlorophenyl-4-nitrophenylether			√			
2,3,5-Trichlorophenyl-4-nitrophenylether			√			
2,3,6-Trichlorophenyl-4-nitrophenylether			√			
2,4,5-Trichlorophenyl-4-nitrophenylether			√			
2,4,6-Trichlorophenyl-4-nitrophenylether			√			
3,4,5-Trichlorophenyl-4-nitrophenylether			√			
1,3,5-Trinitrobenzene		√	√			
2-Amino-4,6-dinitrotoluene		√	√			
4-Amino-2,6-dinitrotoluene		√	√			
1-Chloro-2,4-dinitrobenzene		√	√			
1-Chloro-4-nitrobenzene		√	√			
4-Chloro-3-nitrotoluene		√	√			
3,5-Dichloronitrobenzene		√	√			
Dinitramine		√	√			

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
3,5-Dinitroaniline			√			
Pentaerythritoltetranitrate		√	√			
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		√	√			
Hydrazine		√				
1,2-Naphthoquinone		√	√			
Nitroglycerin		√	√			
2-Nitrotoluene		√	√			
3-Nitrotoluene		√	√			
4-Nitrotoluene		√	√			
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)		√	√			
o-Toluidene		√	√			
2,3,7,8-Tetrachloro-dibenzodioxin	√					
2,3,4,5-Tetrachloronitrobenzene			√			
2,4,6 Trichloronitrobenzene			√			
2,4,6-Trinitrotoluene		√	√			
Trifluralin (Treflan)	√	√	√			
<u>Organic Disinfection By-Products</u>						
Chloral Hydrate	√					
Bromochloroacetic Acid	√					
Dibromoacetic Acid	√					
Dichloroacetic Acid	√					
Monobromoacetic Acid	√					
Monochloroacetic Acid	√					
Trichloroacetic Acid	√					
<u>Polychlorinated biphenyl (PCBs)</u>						
Total PCBs	√	√	√			
PCB Congeners (BZ 2-209)		√	√			
PCBs as decachlorobiphenyl	√	√	√			
PCB Aroclor Identification	√	√	√			
Aroclor 1016	√	√	√			
Aroclor 1221	√	√	√			
Aroclor 1232	√	√	√			
Aroclor 1242	√	√	√			
Aroclor 1248	√	√	√			
Aroclor 1254	√	√	√			
Aroclor 1260	√	√	√			
Aroclor 1016/1242	√	√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
<u>PCBs in Oil</u>						
Aroclor 1016		√	√			
Aroclor 1221						
Aroclor 1232						
Aroclor 1242		√	√			
Aroclor 1248						
Aroclor 1254		√	√			
Aroclor 1260		√	√			
<u>Carbamates & Vidate</u>						
Aldicarb	√	√		√		
Aldicarb sulfone	√	√				
Aldicarb sulfoxide	√	√				
Carbaryl	√	√				
Carbofuran	√	√				
Dioxacarb		√	√			
3-Hydroxycarbofuran	√	√				
Methomyl	√	√	√	√		
Oxamyl (Vydate)	√	√	√	√		
Propoxur		√	√			
Methiocarb	√	√	√	√		
Baygon	√	√				
Diuron		√	√			
Promecarb		√	√			
Propham		√	√			
<u>Pesticides</u>						
Abamectin				√		
Acephate				√		
Acequinocyl				√		
Acetamiprid				√		
Alachlor	√	√	√			
Aldrin	√	√	√			
Alpha-BHC		√	√			
Alpha-Chlordane		√	√			
Ametryn		√	√			
Ancymidol				√		
Anilazine		√	√			
Atraton		√	√			
Atrazine	√	√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Azinphos-Methyl (Guthion)		√	√			
Azoxystrobin				√		
Beta-BHC		√	√			
Delta-BHC		√	√			
Gamma-BHC (Lindane)		√	√			
Bifenazate				√		
Bifenthrin				√		
Boscalid				√		
Bromacil	√	√	√			
Brominal (Bromoxynil)		√	√			
Butachlor	√	√	√			
Butylate		√	√			
Captan				√		
Carbaryl	√	√	√	√		
Carbofuran	√	√	√	√		
Carbophenothion		√	√			
Chlorantraniliprole				√		
Chlordane (technical)	√	√	√	√		
Beta-Chlordane		√	√			
Chlorfenapyr				√		
Chlormequat chloride				√		
Chloroprotham		√	√			
Chlorothalonil	√	√	√			
Chlorpyrifos		√	√	√		
Clofentezine				√		
Coumaphos				√		
Cyanazine		√	√			
Cyfluthrin				√		
Cypermethrin				√		
Daminozide				√		
DDD (4,4)		√	√			
DDE (4,4)		√	√			
DDT (4,4)		√	√			
Deethyl atrazine		√	√			
Demeton-o		√	√			
Demeton-s		√	√			
Diamino atrazine		√	√			
Diazinon	√	√	√	√		
Dieldrin	√	√	√			
Dimethoate	√	√	√	√		
Dimethomorph				√		
Dioxathion		√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Diuron		√	√			
Dimethoate	√	√	√			
Disulfoton	√	√	√			
Diuron	√	√	√			
Dichlorvos		√	√	√		
Disulfoton		√	√			
Endosulfan I		√	√			
Endosulfan II		√	√			
Endosulfan sulfate		√	√			
Endrin	√	√	√			
Endrin aldehyde		√	√			
Endrin ketone		√	√			
EPTC (Eptam, s-ethyl-dipropyl thio carbamate)		√	√			
Ention		√	√			
Ethephon				√		
Ethoprop		√	√			
Ethoprophos				√		
Etofenprox				√		
Etoxazole				√		
Famphur		√	√			
Fenhexamid				√		
Fenoxycarb				√		
Fenpyroximate				√		
Fenuron		√	√			
Fipronil				√		
Flonicamid				√		
Fludioxonil				√		
Fluometuron		√	√			
Fonophos		√	√			
Gamma-Chlordane		√	√			
Heptachlor	√	√	√			
Heptachlor Epoxide (beta)	√	√	√			
Hexachlorobenzene	√	√	√			
Hexachlorocyclopentadiene	√	√	√			
Hexazinone		√	√			
Hexythiazox				√		
3-Hydroxycarbofuran		√	√			
Imazalil				√		
Imidacloprid				√		
Kresoxim-methyl				√		
Linuron (Lorox)		√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Malathion		√	√	√		
Metalaxyl				√		
Methoxychlor	√	√	√			
Methyl parathion (Parathion, methyl)		√	√	√		
Metolachlor	√	√	√			
Metribuzin	√	√	√			
Mevinphos				√		
MGK-264				√		
Molinate (Odrum)	√	√	√			
Monuron		√	√			
Myclobutanil				√		
Naled				√		
Neburon		√	√			
Oxamyl				√		
Paclobutrazol				√		
Parathion, ethyl		√	√			
Permethrins, Total				√		
Phorate		√	√			
Phosmet (Imidan)		√	√	√		
Piperonyl Butoxide				√		
Prallethrin				√		
Promecarb		√	√			
Prometon	√	√	√			
Prometryn	√	√	√			
Propachlor	√	√	√			
Propazine		√	√			
Propham		√	√			
Propiconazole				√		
Propoxur				√		
Propozur		√	√			
Pyrethrins, Total				√		
Pyridaben				√		
Ronnel		√	√			
Siduron		√	√			
Simazine	√	√	√			
Spinetoram				√		
Spinosad				√		
Spiromesifen				√		
Spirotetramat				√		
Spiroxamine				√		
Stirophos		√	√			
Sulfotepp		√	√			

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
Tebuconazole				√		
Tebuthiuron		√	√			
Terbacil		√	√			
Terbufos		√	√			
Thiacloprid				√		
Thiamethoxam				√		
Thiobencarb	√	√	√			
Toxaphene	√	√	√			
Trifloxystrobin				√		
<u>Herbicides</u>						
Acifluorfen	√	√	√			
Bentazon	√	√	√			
Chloramden	√	√	√			
2,4-D	√	√	√			
Dacthal (DCPA)	√	√	√			
Dalapon	√	√	√			
2,4-DB	√	√	√			
Dicamba	√	√	√			
3,5-Dichlorobenzoic Acid	√	√	√			
2,4-DP (Dichlorprop)	√	√	√			
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	√	√	√			
Diquat	√					
Endothall	√					
Glyphosate	√					
5-Hydroxydicamba	√					
Paraquat	√					
Pentachlorophenol	√	√	√			
Picloram	√	√	√			
2,4,5-TP (Silvex)	√	√	√			
2,4,5-T	√	√	√			
4-Nitrophenol	√	√	√			
MCPA	√	√	√			
MCPP	√	√	√			
<u>Petroleum Hydrocarbons/ UST Analytes</u>						
Diesel range organics (DRO)		√	√			
Gasoline range organics (GRO)		√	√			
>C10 – C12 Alliphatic Hydrocarbons		√	√			

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
>C10 – C12 Aromatic Hydrocarbons		√	√			
>C12 – C13 Aromatic Hydrocarbons		√	√			
>C12 – C16 Alliphatic Hydrocarbons		√	√			
>C12 – C16 Aromatic Hydrocarbons		√	√			
>C16 – C21 Aromatic Hydrocarbons		√	√			
>C21 – C34 Alliphatic Hydrocarbons		√	√			
>C21 – C34 Aromatic Hydrocarbons		√	√			
>C6 – C8 Alliphatic Hydrocarbons		√	√			
>C8 – C10 Alliphatic Hydrocarbons		√	√			
>C9 – C10 Aromatic Hydrocarbons		√	√			
>C9 – C12 Alliphatic Hydrocarbons		√	√			
>C9 – C18 Alliphatic Hydrocarbons		√	√			
Oil Range Organics (C22-C32)		√	√			
Total Petroleum Hydrocarbons		√	√			
nC6 - nC12		√	√			
nC12 - nC28		√	√			
nC28 - nC35		√	√			
Alaska - BTEX		√	√			
Alaska - GRO		√	√			
Alaska - DRO		√	√			
Alaska - RRO		√	√			
AZ # 2 Diesel (C10-C22)		√	√			
AZ Oil Range Organics (C22-C32)		√	√			
AZ TPH (C10-C32)		√	√			
MA/NC/WA EPH		√	√			
MA/NC/WA VPH		√	√			
TX 1005		√	√			
Wisconsin DRO		√	√			
Wisconsin GRO		√	√			
Wisconsin PVOC		√	√			
n-Hexane Extractable Material (O & G)		√	√		√	
Non-Polar Extractable Material (TPH)		√	√			
<u>DMRQA Wet</u>						
Fathead Minnow Acute MHSF 20° - LC50		√			√	
Fathead Minnow Acute MHSF 25° - LC50		√			√	
Fathead Minnow Acute 20% DMW 25° - LC50		√			√	



<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Fathead Minnow Chronic MHSF - Survival NOEC		√			√	
Fathead Minnow Chronic MHSF - Growth IC25 (ON)		√			√	
Fathead Minnow Chronic MHSF - Growth IC25 (SN)		√			√	
Fathead Minnow Chronic MHSF - Growth NOEC (ON)		√			√	
Fathead Minnow Chronic MHSF - Growth NOEC (SN)		√			√	
Fathead Minnow Chronic 20% DMW - Survival NOEC		√			√	
Fathead Minnow Chronic 20% DMW -Growth IC25 (ON)		√			√	
Fathead Minnow Chronic 20% DMW -Growth IC25 (SN)		√			√	
Fathead Minnow Chronic 20% DMW -Growth NOEC (ON)		√			√	
Fathead Minnow Chronic 20% DMW -Growth NOEC (SN)		√			√	
Ceriodaphnia Acute MNSF 25° - LC50		√			√	
Ceriodaphnia Acute 20% DMW 25° - LC50		√			√	
Ceriodaphnia Acute MHSF 25° - LC50		√			√	
Ceriodaphnia Acute 20% DMW 25° - LC50		√			√	
Ceriodaphnia Chronic MHSF - Survival NOEC Survival		√			√	
Ceriodaphnia Chronic MHSF – Reproduction IC25		√			√	
Ceriodaphnia Chronic MHSF - Reproduction NOEC		√			√	
Ceriodaphnia Chronic 20% DMW - Survival NOEC		√			√	
Ceriodaphnia Chronic 20% DMW - Reproduction IC25		√			√	
Ceriodaphnia Chronic 20% DMW - Reproduction NOEC		√			√	
Daphnia Magna Acute MHSF 25° - LC50		√			√	
Daphnia Pulex Acute MHSF 20° - LC50		√			√	
Daphnia Pulex Acute MHSF 25° - LC50		√			√	
Mysid Acute 40 F 25° - LC50		√			√	
Mysid Acute SSW 25° - LC50		√			√	

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Mysid Chronic SSW - Survival NOEC		√			√	
Mysid Chronic SSW - Growth IC25 (ON)		√			√	
Mysid Chronic SSW - Growth NOEC (ON)		√			√	
Mysid Chronic 40 F - Survival NOEC		√			√	
Mysid Chronic 40 F - Growth IC25 (ON)		√			√	
Mysid Chronic 40 F - Growth IC25 (SN)		√			√	
Mysid Chronic 40 F - Growth NOEC (ON)		√			√	
Mysid Chronic 40 F - Growth NOEC (SN)		√			√	
Menidia berylliana Acute 40 F 25° - LC50		√			√	
Menidia Acute SSW 25° - LC50		√			√	
Menidia Chronic SSW - Survival NOEC		√			√	
Menidia Chronic SSW - Growth IC25 (ON)		√			√	
Menidia Chronic SSW - Growth NOEC (ON)		√			√	
Inland Silverside		√			√	
Inland Silverside (MB) Chronic 40 F - Survival NOEC		√				
Inland Silverside (MB) Chronic 40 F - Growth IC25 (ON)		√				
Inland Silverside (MB) Chronic 40 F - Growth NOEC (ON)		√				
Sheepshead Minnow Acute 40 F 25° - LC50		√			√	
Sheepshead Minnow Acute SSW 25° - LC50		√			√	
Sheepshead Minnow Chronic 40 F - Survival NOEC		√			√	
Sheepshead Minnow Chronic 40 F - Growth IC25 (ON)		√			√	
Sheepshead Minnow Chronic 40 F - Growth IC25 (SN)		√			√	
Sheepshead Minnow Chronic 40 F - Growth NOEC (ON)		√			√	
Sheepshead Minnow Chronic 40 F - Growth NOEC (SN)		√			√	
Sheepshead Minnow Chronic SSW - Survival NOEC		√			√	

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Sheepshead Minnow Chronic SSW - Growth IC25 (ON)		√			√	
Sheepshead Minnow Chronic SSW - Growth NOEC (ON)		√			√	
<u>Air Volatiles on Tube</u>						
Acetonitrile						√
Acrolein						√
Acrylonitrile						√
Benzene						√
Bromodichloromethane						√
Bromoform						√
Bromomethane						√
2-Butanone (MEK)						√
Carbon disulfide						√
Carbon tetrachloride						√
Chlorobenzene						√
Chloroethane						√
2-Chloroethylvinylether						√
Chloroform						√
Chloromethane						√
Dibromochloromethane						√
1,2-Dibromo-3-chloropropane (DBCP)						√
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						√
Cis-1,3-Dichloropropylene						√
Ethylbenzene						√
2-Hexanone						√
Methylene Chloride						√
MTBE						√
4-Methyl-2-pentanone (MIBK)						√
Styrene						√
1,1,1,2-Tetrachloroethane						√
1,1,2,2-Tetrachloroethane						√

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Tetrachloroethene						√
Toluene						√
1,1,2-Trichloroethane						√
1,2,3-Trichloropropane						√
Trans-1,3-Dichloropropene						√
1,1,1-Trichloroethane						√
Trichloroethene						√
Trichlorofluoromethane						√
Vinyl Acetate						√
Vinyl Chloride						√
Xylenes, total						√
<u>Air in Summa Canister</u>						
Acetone						√
Acetonitrile						√
Acetylene						√
Acrolein						√
Acrylonitrile						√
Benzene						√
Bromochloromethane						√
Bromodichloromethane						√
Bromoform						√
Bromomethane						√
1,3-Butadiene						√
2-Butanone (MEK)						√
Carbon disulfide						√
Carbon tetrachloride						√
Chlorobenzene						√
Chloroethane						√
Chloroform						√
Chloromethane						√
Chloromethylbenzene						√
Chloroprene						√
Cyclohexane						√
Dibromochloromethane						√
1,2-Dibromoethane (EDB)						√
1,2-Dichlorobenzene						√
1,3-Dichlorobenzene						√
1,4-Dichlorobenzene						√
Dichlorodifluoromethane						√
1,1-Dichloroethane						√
1,2-Dichloroethane						√
1,1-Dichloroethene						√
cis-1,2-Dichloroethene						√

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
1,2-Dichloropropane						√
cis-1,3-Dichloropropene						√
trans-1,3-Dichloropropene						√
trans-1,2-Dichloroethene						√
trans-1,2-Dichloroethylene						√
1,2-Dichloro-1,1,2,2-tetrafluoroethane						√
Ethyl acetate						√
Ethyl acrylate						√
Ethylbenzene						√
Ethyl-t-butylether (ETBE)						√
n-Heptane						√
Hexachlorobutadiene						√
Hexane						√
Isopropanol						√
Methyl tert-butyl ether (MTBE)						√
Methylene chloride						√
Methyl isobutyl ketone (Hexone)						√
Methyl methacrylate						√
n-Octane						√
Propylene						√
Styrene						√
T-amylmethylether (TAME)						√
1,1,2,2-Tetrachloroethane						√
Tetrachloroethene						√
Toluene						√
1,2,4-Trichlorobenzene						√
1,1,1-Trichloroethane						√
1,1,2-Trichloroethane						√
Trichloroethene						√
Trichlorofluoromethane						√
1,1,2-Trichloro-1,2,2-Trifluoroethane						√
1,2,4-Trimethylbenzene						√
1,3,5-Trimethylbenzene						√
Vinyl chloride						√
m+p-Xylene						√
o-Xylene						√
Xylenes, total						√
<u>Air PAHs on PUF Cartridge</u>						
Acenaphthene						√
Acenaphthylene						√
Anthracene						√
Benzo(a)anthracene						√

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
Benzo(b)fluoranthene						√
Benzo(k)fluoranthene						√
Benzo(g,h,i)perylene						√
Benzo(a)pyrene						√
Chrysene						√
Dibenz(a,h)anthracene						√
Fluoranthene						√
Fluorene						√
Indeno(1,2,3-cd)pyrene						√
Naphthalene						√
Phenanthrene						√
Pyrene						√
<u>Air Pesticides on PUF Cartridge</u>						
Aldrin						√
Alpha-BHC						√
Beta-BHC						√
Delta-BHC						√
Gamma-BHC (Lindane)						√
Alpha-chlordane						√
Gamma-chlordane						√
DDD (4,4,)						√
DDE (4,4,)						√
DDT (4,4,)						√
Dieldrin						√
Endosulfan I						√
Endosulfan II						√
Endosulfan sulfate						√
Endrin						√
Endrin aldehyde						√
Heptachlor						√
Heptachlor Epoxide (beta)						√
Methoxychlor						√
<u>Air PCBs on PUF Cartridge</u>						
1016						√
1221						√
1232						√
1242						√
1248						√
1254						√
1260						√

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
<u>Air Metals on Filter Paper</u>						
Aluminum (Al)						√
Arsenic (As)						√
Barium (Ba)						√
Beryllium (Be)						√
Boron (B)						√
Cadmium (Cd)						√
Chromium (Cr)						√
Cobalt (Co)						√
Copper (Cu)						√
Iron (Fe)						√
Lead (Pb)						√
Manganese (Mn)						√
Molybdenum (Mo)						√
Nickel (Ni)						√
Antimony (Sb)						√
Selenium (Se)						√
Silver (Ag)						√
Strontium (Sr)						√
Thallium (Tl)						√
Vanadium (V)						√
Zinc (Zn)						√
<u>Air Mercury on Filter Paper</u>						
Mercury (Hg)						√
<u>Air Lead on Filter Paper</u>						
Lead (Pb)						√
<u>Air Cr⁶ on Filter Paper</u>						
Hexavalent Chromium						√
<u>Air Particulates on Filter Paper</u>						
Particulates						√
<u>Air Formaldehyde on Sorbent Tube</u>						
Formaldehyde						√



<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water²</u>	<u>Air²</u>
<u>Air Particulates, Impinger Solution</u>						
Particulates						√
<u>Inorganics in Impinger Solution</u>						
<u>Air SO₂, Impinger Solution</u>						
Sulfur Dioxide (SO ₂)						√
<u>Air No_x, Impinger Solution</u>						
Oxides of Nitrogen (No _x)						√
<u>Air H₂SO₄, Impinger Solution</u>						
Sulfuric Acid Mist (H ₂ SO ₄)						√
<u>Air F, Impinger Solution</u>						
Fluoride						√
<u>Air HCl/Cl₂, Impinger Solution</u>						
Hydrogen Chloride						√
Hydrogen Fluoride						√
<u>Air Trace Metals, Impinger Solution</u>						
Aluminum (Al)						√
Antimony (Sb)						√
Arsenic (As)						√
Barium (Ba)						√
Beryllium (Be)						√
Boron (B)						√
Cadmium (Cd)						√
Chromium (Cr)						√
Cobalt (Co)						√
Copper (Cu)						√
Iron (Fe)						√
Lead (Pb)						√
Manganese (Mn)						√
Molybdenum (Mo)						√
Nickel (Ni)						√

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>Cannabis</u>	<u>DMRQA Non-potable Water</u> ²	<u>Air</u> ²
Selenium (Se)						√
Silver (Ag)						√
Strontium (Sr)						√
Thallium (Tl)						√
Vanadium (V)						√
Zinc (Zn)						√
<u>Air Mercury, Impinger Solution</u>						
Mercury						√

¹ The assigned value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the TNI standards and FoPT tables and other documents distributed by accrediting agencies as applicable. The uncertainty is determined in accordance with ISO/IEC Guide 98 and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level.

² Denotes Non-TNI Scheme





Accredited Proficiency Testing Provider

A2LA has accredited

PHENOVA, INC.
Golden, CO

This accreditation covers the specific proficiency testing samples 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, TNI EL-V3-2009, relevant sections of ISO Guide 34:2009 and ISO/IEC 17025:2005. This provider meets the management system requirements of ISO/IEC 17043:2010, which includes the principles of ISO 9000:2005

Presented this 26th day of October 2018.



President and CEO
For the Accreditation Council
Certificate Number 2427.01
Valid to September 30, 2020

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