SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

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PROFICIENCY TESTING PROVIDER

Valid To: December 31, 2018 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):

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Metals					
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	√	√	√	√	

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Strontium	√	√	√	√	
Thallium	√	√	√	√	
Tin	√	√	√		
Titanium	√	√	√		
Uranium	√	√	√		
Vanadium	√	√	√	√	
Lithium		√			
Zinc	√	√	√	√	
Nutrients					
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		√			
Demands					
Biochemical oxygen demand (BOD)	√	√		√	
Carbonaceous BOD	√	√		√	
Chemical oxygen demand (COD)	√	√		√	
Dissolved organic carbon (DOC)	√	√			
Total organic carbon (TOC)	√	√	√	√	
Minerals					
Alkalinity, total as ($CACO_3$)	√	√		√	
Calcium	√	√	√		
Chloride	√	√	√	√	
Fluoride	√	√	√	√	
Calcium hardness as ($CACO_3$)	√	√		√	
Hardness, total ($CaCO_3$)	√	√		√	
Magnesium	√	√	√	√	
Potassium	√	√	√	√	
Sodium	√	√	√	√	
Specific conductance (25°c)	√	√	√	√	
Sulfate	√	√	√	√	
Sulfide		√	√		
Total dissolved solids at 180°C	√	√		√	

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Total solids		√	√	√	
Microbiology					
Fecal coliform, MF	√	√	√	√	
Escherichia coli, MF	√	√	√	√	
Total coliform, MF	√	√	√	√	
Enterococci, MF	√	√	√	√	
E. coli, MPN	√	√	√	√	
Fecal coliform, MPN	√	√	√	√	
Total coliform, MPN	√	√	√	√	
Enterococci, MPN	√	√	√	√	
Total coliform, P/A	√	√		√	
Fecal coliform, P/A	√	√		√	
E. coli, P/A	√	√		√	
Heterotrophic Plate Count, (MF, PP)	√	√		√	
Heterotrophic Plate Count, (MPN)	√	√		√	
Fecal Streptococci, MF	√	√		√	
Fecal Streptococci, MPN	√	√		√	
Miscellaneous Analytes					
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	√				
Oil & grease		√	√	√	
Perchlorate	√	√	√		
UV254	√				
pH	√	√	√	√	

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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		√			
Volatiles					
Acetone		√	√		
Acetonitrile		√	√		
Acrolein		√	√		
Acrylonitrile		√	√		
Benzene	√	√	√		
Bromobenzene	√	√	√		
Bromochloromethane	√	√	√		
Bromodichloromethane	√	√	√		
Bromoform	√	√	√		
2-Butanone (MEK)		√	√		
tert-Butyl alcohol	√	√	√		
n-Butylbenzene	√	√	√		
sec-Butylbenzene	√	√	√		
tert-Butylbenzene	√	√	√		
Carbon disulfide		√	√		
Carbon tetrachloride	√	√	√		
Chloroacetaldehyde		√	√		
Chlorobenzene	√	√	√		
Chloroethane	√	√	√		
Chloroethene	√	√	√		
Chlorodibromomethane	√	√	√		
2-Chloroethylvinylether		√	√		
Chloroform	√	√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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	√	√	√		
Ethylbenzene	√	√	√		
Ethyl-t-butylether (ETBE)	√	√	√		
Formaldehyde	√	√	√		
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane	√	√	√		
Freon 11	√	√	√		
2-Hexanone		√	√		
Hexachlorobutadiene	√	√	√		
Hexachloroethane		√	√		
Di-n-butylphthalate	√				
Isopropylbenzene	√	√	√		
4-Isopropyltoluene	√	√	√		
Bromomethane	√	√	√		
Chloromethane	√	√	√		
Methylene chloride	√	√	√		
4-Methyl-2-pentanone (MIBK)		√	√		
Methyl tert-butyl ether (MTBE)	√	√	√		
Naphthalene	√	√	√		
Nitrobenzene	√	√	√		
n-Propylbenzene	√	√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Pyridine		√	√		
Styrene	√	√	√		
Total THMs	√	√	√		
1,1,1,2-Tetrachloroethane	√	√	√		
1,1,2,2-Tetrachloroethane	√	√	√		
Tetrachloroethene	√	√	√		
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)	√	√	√		
Semivolatiles					
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		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Bis (2-chloroethoxy) methane		√	√		
Bis (2-chloroethoxy) ether		√	√		
Bis (2-chloroisopropyl) ether		√	√		
4-Bromophenyl-phenylether		√	√		
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	√	√	√		
1,3-Dinitrobenzene		√	√		
1,4-Dinitrobenzene		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
2,4-Dinitrophenol		√	√		
2,4-Dinitrotoluene		√	√		
2,6-Dinitrotoluene		√	√		
Di-n-butylphalate	√	√	√		
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		√	√		
2-Nitrophenol		√	√		
3-Nitrophenol		√	√		
4-Nitrophenol		√	√		
4-Nitrophenylphenylether			√		
N-Nitrosodinpropylamine		√	√		
N-Nitrosodimethylamine		√	√		
N-Nitrosodiphenylamine		√	√		
N-Nitrosodiethylamine		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
N-Nitroso-di-n-propylamine		√	√		
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		√	√		
3,5-Dinitroaniline			√		
Pentaerythritoltetranitrate		√	√		
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		√	√		
Hydrazine		√			
1,2-Naphthoquinone		√	√		
Nitroglycerin		√	√		
2-Nitrotoluene		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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)	√	√	√		
Organic Disinfection By-Products					
Chloral Hydrate	√				
Bromochloroacetic Acid	√				
Dibromoacetic Acid	√				
Dichloroacetic Acid	√				
Monobromoacetic Acid	√				
Monochloroacetic Acid	√				
Trichloroacetic Acid	√				
Perfluorinated Compounds					
Perfluoro-n-butanoic acid (PFBA)		√			
Perfluoro-n-octanesulfonate (PFOS)		√			
Perfluoro-n-octanoic acid (PFOA)		√			
Polychlorinated biphenyl (PCBs)					
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	√	√	√		
Arohlor 1260	√	√	√		
Aroclor 1016/1242	√	√	√		
PCBs in Oil					
Aroclor 1016		√	√		
Aroclor 1242		√	√		
Aroclor 1254		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Aroclor 1260		√	√		
Carbamates & Vidate					
Aldicarb	√	√			
Aldicarb sulfone	√	√			
Aldicarb sulfoxide	√	√			
Carbaryl	√	√			
Carbofuran	√	√			
Dioxacarb		√	√		
3-Hydroxycarbofuran	√	√			
Methomyl	√	√	√		
Oxamyl (Vydate)	√	√	√		
Propoxur		√	√		
Methiocarb	√	√	√		
Baygon	√	√			
Diuron		√	√		
Promecarb		√	√		
Propham		√	√		
Pesticides					
Alachlor	√	√	√		
Aldrin	√	√	√		
Alpha-BHC		√	√		
Alpha-Chlordane		√	√		
Ametryn		√	√		
Anilazine		√	√		
Atraton		√	√		
Atrazine	√	√	√		
Azinphos-Methyl (Guthion)		√	√		
Beta-BHC		√	√		
Delta-BHC		√	√		
Gamma-BHC (Lindane)		√	√		
Bromacil	√	√	√		
Brominal (Bromoxynil)		√	√		
Butachlor	√	√	√		
Butylate		√	√		
Carbaryl	√	√	√		
Carbofuran	√	√	√		
Carbophenothion		√	√		
Chlordane (technical)	√	√	√		
Beta-Chlordane		√	√		
Chloropropham		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Chlorothalonil	√	√	√		
Chlorpyrifos		√	√		
Cyanazine		√	√		
DDD (4,4)		√	√		
DDE (4,4)		√	√		
DDT (4,4)		√	√		
Deethyl atrazine		√	√		
Demeton-o		√	√		
Demeton-s		√	√		
Diamino atrazine		√	√		
Diazinon	√	√	√		
Dieldrin	√	√	√		
Dimethoate	√	√	√		
Dioxathion		√	√		
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		√	√		
Ethoprop		√	√		
Famphur		√	√		
Fenuron		√	√		
Fluometuron		√	√		
Fonophos		√	√		
Gamma-Chlordane		√	√		
Heptachlor	√	√	√		
Heptachlor Epoxide (beta)	√	√	√		
Hexachlorobenzene	√	√	√		
Hexachlorocyclopentadiene	√	√	√		
Hexazinone		√	√		
3-Hydroxycarbofuran		√	√		
Linuron (Lorox)		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Malathion		√	√		
Methoxychlor	√	√	√		
Methyl parathion (Parathion, methyl)		√	√		
Metolachlor	√	√	√		
Metribuzin	√	√	√		
Molinate (Odram)	√	√	√		
Monuron		√	√		
Neburon		√	√		
Parathion, ethyl		√	√		
Phorate		√	√		
Phosmet (Imidan)		√	√		
Promecarb		√	√		
Prometon	√	√	√		
Prometryn	√	√	√		
Propachlor	√	√	√		
Propazine		√	√		
Propham		√	√		
Propozur		√	√		
Ronnel		√	√		
Siduron		√	√		
Simazine	√	√	√		
Stirophos		√	√		
Sulfotepp		√	√		
Tebuthiuron		√	√		
Terbacil		√	√		
Terbufos		√	√		
Thiobencarb	√	√	√		
Toxaphene	√	√	√		
Herbicides					
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)	√	√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Diquat	√				
Endothall	√				
Glyphosate	√				
5-Hydroxydicamba	√				
Paraquat	√				
Pentachlorophenol	√	√	√		
Picloram	√	√	√		
2,4,5-TP (Silvex)	√	√	√		
2,4,5-T	√	√	√		
4-Nitrophenol	√	√	√		
MCPA	√	√	√		
MCPP	√	√	√		
Petroleum Hydrocarbons/ UST Analytes					
Diesel range organics (DRO)		√	√		
Gasoline range organics (GRO)		√	√		
>C10 – C12 Alliphatic Hydrocarbons		√	√		
>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)		√	√		

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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)		√	√		
DMRQA Wet					
Fathead Minnow Acute MHSF 20° - LC50		√		√	
Fathead Minnow Acute MHSF 25° - LC50		√		√	
Fathead Minnow Acute 20% DMW 25° - LC50		√		√	
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 (ON)		√		√	
Fathead Minnow Chronic 20% DMW - Growth NOEC (ON)		√		√	
Fathead Minnow Chronic 20% DMW - Growth NOEC (SN)		√		√	
Ceriodaphania 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		√		√	

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Ceriodaphnia Chronic MHSF - Reproduction NOEC		√		√	
Ceriodaphnia Chronic 20% DMW - Survival NOEC		√		√	
Ceriodaphnia Chronic 20% DMW - Reproduction IC25		√		√	
Ceriodaphnia Chronic 20% DMW - Reproduction NOEC		√		√	
Daphnia Magma Acute MHSF 25° - LC50		√		√	
Daphnia Pulex Acute MHSF 20° - LC50		√		√	
Daphnia Pulex Acute MHSF 25° - LC50		√		√	
Mysid Acute 40 F 25° - LC50		√		√	
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 beryliana Acute 40 F 25° - LC50		√		√	
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 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)		√		√	
Air Volatiles on Tube					
Acetonitrile					√
Acrolein					√
Acrylonitrile					√
Benzene					√
Bromodichloromethane					√
Bromoform					√
Bromomethane					√

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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					√
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					√
Air in Summa Canister					
Acetone					√

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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					√
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)					√

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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					√
Air PAHs on PUF Cartridge					
Acenaphthene					√
Acenaphthylene					√
Anthracene					√
Benzo(a)anthracene					√
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					√
Air Pesticides on PUF Cartridge					
Aldrin					√
Alpha-BHC					√
Beta-BHC					√

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
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					√
Air PCBs on PUF Cartridge					
1016					√
1221					√
1232					√
1242					√
1248					√
1254					√
1260					√
Air Metals on Filter Paper					
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)					√

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Thallium (Tl)					√
Vanadium (V)					√
Zinc (Zn)					√
Air Mercury on Filter Paper					
Mercury (Hg)					√
Air Lead on Filter Paper					
Lead (Pb)					√
Air Cr^6 on Filter Paper					
Hexavalent Chromium					√
Air Particulates on Filter Paper					
Particulates					√
Air Formaldehyde on Sorbent Tube					
Formaldehyde					√
Air Particulates, Impinger Solution					
Particulates					√
Inorganics in Impinger Solution					
Air SO_2, Impinger Solution					
Sulfur Dioxide (SO_2)					√
Air No_x, Impinger Solution					
Oxides of Nitrogen (No_x)					√
Air H_2SO_4, Impinger Solution					
Sulfuric Acid Mist (H_2SO_4)					√
Air F, Impinger Solution					
Fluoride					√
Air HCl/Cl_2, Impinger Solution					
Hydrogen Chloride					√
Hydrogen Fluoride					√
Air Trace Metals, Impinger Solution					√
Aluminum (Al)					√
Antimony (Sb)					√
Arsenic (As)					√
Barium (Ba)					√
Beryllium (Be)					√
Boron (B)					√

Parameter/Analyte[1]	Drinking Water	Non-potable Water	Solid and Chemical Materials	DMRQA Non-potable Water[2]	Air[2]
Cadmium (Cd)					√
Chromium (Cr)					√
Cobalt (Co)					√
Copper (Cu)					√
Iron (Fe)					√
Lead (Pb)					√
Manganese (Mn)					√
Molybdenum (Mo)					√
Nickel (Ni)					√
Selenium (Se)					√
Silver (Ag)					√
Strontium (Sr)					√
Thallium (Tl)					√
Vanadium (V)					√
Zinc (Zn)					√
Air Mercury, Impinger Solution					
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

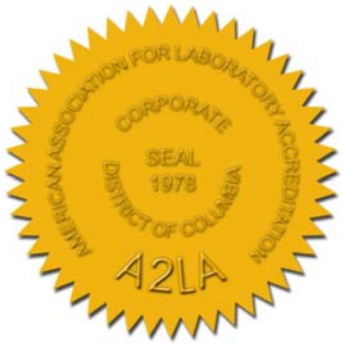
Accredited Proficiency Testing Provider

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 30th day of May 2017.

President and CEO
For the Accreditation Council
Certificate Number 2427.01
Valid to December 31, 2018
Revised: September 26, 2018

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