



SCOPE OF ACCREDITATION TO THE ISO/IEC 17043:2010

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PROFICIENCY TESTING PROVIDER

Valid To: December 31, 2016

Certificate Number: 1539.01

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) and for the design, preparation and operation of stationary source audit samples (SSAS) schemes that meet the requirements of TNI SSAS Program Standard Volume 1, Module 1 (V1M1-2009)-Rev0.2:

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS²</u>	<u>Air³</u>	<u>DMR-QA³</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	√	√	√		√	√
Silver	√	√	√		√	√
Sodium	√	√	√			√
Strontium		√	√			√

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS²</u>	<u>Air³</u>	<u>DMR-QA³</u>
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 BOD		√				√
Chemical oxygen demand		√				√
Total organic carbon	√	√	√			√
<u>Minerals</u>						
Alkalinity, total (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	√	√				√
Total solids		√	√			√
<u>Microbiology</u>						
Fecal coliform, MF	√	√				√
Total coliform, MF	√	√				√
Fecal coliform, MPN	√	√				√
Total coliform, MPN	√	√				√
Total Coliform (p/a)	√					
Fecal coliform/E. Coli (p/a)	√					
E. Coli (MPN)	√	√				√
E.Coli (MF)	√	√				√

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<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS</u> ²	<u>Air</u> ³	<u>DMR-QA</u> ³
Enterococci, MF		√				
Enterococci, MPN		√				
Fecal Streptococcus, MF		√				
Fecal Streptococcus, MPN		√				
Heterotrophic Plate Count	√					
<u>Miscellaneous Analytes</u>						
Acidity (as CaCO ₃)		√				
Alkalinity (as CaCO ₃)	√	√				√
Bromate	√					
Bromide	√	√	√			
Ca Hardness (as CaCO ₃)	√	√				
Chlorate	√					
Chlorite	√					
Color	√	√				
Corrosivity	√		√			
Cyanide	√		√			√
Dissolved organic carbon	√					
HEM		√				
Ignitability			√			
Langelier index	√					
Nitrogen oxide					√	
Non-filterable residue	√	√				√
Oil and Grease		√	√			√
Perchlorate	√	√				
pH	√	√	√			√
Reactive cyanide	√		√			
Reactive sulfide			√			
Residual free chlorine	√					
Settleable solids		√				√
SGT-HEM		√				
Silica (as SiO ₂)	√	√				
Sulfate	√	√				√
Sulfur Dioxide					√	
Sulfuric Acid					√	
Surfactants-MBAS	√	√				
Total cyanide		√	√			√
Total filterable residue	√	√			√	
Total Halides					√	
Total Halogens					√	
Total Hardness (as CaCO ₃)	√	√				√
Total organic halides (TOX)		√				
Total phenolics (4AAP)		√				√
Total sulfide			√			
Turbidity	√	√				√
UV 254	√					
Volatile solids		√				

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Volatiles						
Acetaldehyde					√	
Acetone		√	√		√	
Acetonitrile		√	√		√	
Acrolein		√	√		√	
Acrylonitrile		√			√	
Benzene	√	√	√		√	
Benzaldehyde					√	
Bromobenzene	√		√			
Bromochloromethane	√				√	
Bromodichloromethane	√	√	√		√	
Bromoform	√	√	√		√	
Bromomethane	√	√	√		√	
2-Butanone (MEK)		√	√		√	
Tert-butyl Alcohol	√					
n-Butylbenzene	√					
sec-Butylbenzene	√					
tert-Butylbenzene	√					
Butyraldehyde					√	
Carbon disulfide		√	√		√	
Carbon tetrachloride	√	√	√		√	
Chloroacetaldehyde			√			
Chlorobenzene	√	√	√		√	
Chloroethane	√	√	√		√	
Chlorodibromomethane	√	√	√		√	
2-Chloroethylvinylether		√	√		√	
Chloroform	√	√	√		√	
Chloromethane	√	√	√		√	
1,2-Dibromo-3-chloropropane (DBCP)	√	√	√		√	
2-Chlorotoluene	√					
4-Chlorotoluene	√					
Crotonaldehyde					√	
Cyclohexane					√	
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		√			√	
Trans-1,2-Dichloroethene					√	
1,1-Dichloroethylene	√		√		√	
cis-1,2-Dichloroethene		√			√	

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cis-1,2-Dichloroethylene	√		√		√	
1,2-Dichloropropane	√	√	√		√	
1,3-Dichloropropane	√					
2,2-Dichloropropane	√					
1,1-Dichloropropene	√					
cis-1,3-Dichloropropene	√	√			√	
trans-1,3-Dichloropropene	√	√	√		√	
cis-1,3-Dichloropropylene			√		√	
trans-1,3-Dichloropropylene			√		√	
trans-1,2-Dichloroethylene	√	√	√			
1,2-Dichlorotetraflouroethane (Freon 114)					√	
Di-isopropylether	√					
2,5-Dimethylbenzaldehyde					√	
Ethylbenzene	√	√	√		√	
Ethyl-t-butylether (ETBE)	√		√			
Ethylene dibromide (EDB)	√		√			
p-Ethyltoluene					√	
Formaldehyde	√				√	
Hexaldehyde					√	
n-Hexane					√	
2-Hexanone		√	√		√	
Hexachlorobutadiene	√	√	√		√	
Hexachloroethane		√	√			
Di-n-butylphthalate	√					
Isopropylbenzene	√		√			
4-Isopropyltoluene	√					
Isovaleraldehyde					√	
Methylene chloride	√	√	√		√	
4-Methyl-2-pentanone (MIBK)		√	√		√	
Methyl tert-butyl ether (MTBE)	√	√	√			
Naphthalene	√	√	√		√	
Nitrobenzene			√			
1-Phenylpropane	√					
Propionaldehyde (propanol)					√	
n-Propylbenzene	√					
Propylene					√	
Pyridine			√			
Styrene	√	√	√		√	
1,1,1,2-Tetrachloroethane	√	√	√		√	
1,1,2,2-Tetrachloroethane	√	√	√		√	
Tetrachloroethene		√			√	
Tetrachloroethylene	√		√		√	
o-Tolualdehyde					√	
m-Tolualdehyde					√	
p-Tolualdehyde					√	
Toluene	√	√	√		√	
2-Amino-1-methylbenzene			√			

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1,2,3-Trichlorobenzene	√		√		√	
1,2,4-Trichlorobenzene	√	√	√			
1,1,1-Trichloroethane	√	√	√		√	
1,1,2-Trichloroethane	√	√	√		√	
Trichloroethene		√				
Trichloroethylene	√		√		√	
Trichlorofluoromethane	√	√	√		√	
1,2,3-Trichloropropane	√	√	√		√	
Trichlorotrifluoroethane (Freon 113)	√				√	
1,2,4-Trimethylbenzene	√		√		√	
1,3,5-Trimethylbenzene	√		√		√	
TAME	√		√			
Valeraldehyde (pentanal)					√	
Vinyl acetate		√	√		√	
Vinyl bromide					√	
Vinyl chloride	√	√	√		√	
Xylenes, total	√	√	√		√	
<u>Semivolatiles</u>						
Acenaphthene	√	√	√		√	
Acenaphthylene	√	√	√		√	
Anilene		√	√		√	
Anthracene	√	√	√		√	
Benzidine		√	√		√	
Benzoic acid		√	√		√	
Benzo (a) anthracene	√	√	√		√	
Benzo (b) fluoranthene	√	√	√		√	
Benzo (k) fluoranthene	√	√	√		√	
Benzo (g, h, i) perylene	√	√	√		√	
Benzo (a) pyrene	√	√	√		√	
Benzotrichloride			√			
Benzyl alcohol		√	√		√	
Benzyl chloride			√			
bis(2-chloroethoxy) methane		√	√			
bis (2-chloroethyl) ether		√	√			
bis (2-chloroisopropyl) ether		√	√			
4-Bromophenyl-phenylether		√	√		√	
Butylbenzylphthalate	√	√	√			
Carbazole		√	√		√	
4-Chloroanilene		√	√		√	
4-Chloro-3-methylphenol		√	√		√	
1-Chloronaphthalene		√	√		√	
2-Chloronaphthalene		√	√		√	
2-Chlorophenol		√	√		√	
4-Chlorophenylphenyl ether		√	√		√	
Chrysene	√	√	√		√	
Dibenzo (a,h) anthracene	√	√	√		√	

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Dibenzofuran		√	√		√	
1,2-Dichlorobenzene		√	√		√	
1,3-Dichlorobenzene		√	√		√	
1,4-Dichlorobenzene		√	√		√	
3,3'-Dichlorobenzidine		√	√		√	
2,4-Dichlorophenol		√	√		√	
2,6-Dichlorophenol		√	√		√	
Diethylphthalate	√	√	√		√	
2,4-Dimethylphenol		√	√		√	
Dimethylphthalate	√	√	√		√	
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	√					
di (2-Ethylhexyl) phthalate	√		√			
Fluoroanthene	√	√	√		√	
Fluorene	√	√	√		√	
Hexachlorobenzene		√	√		√	
Hexachlorobutadiene		√	√		√	
Hexachloroethane		√	√		√	
Hexachlorocyclopentadiene		√	√		√	
Indeno (1,2,3-cd) pyrene	√	√	√		√	
Isophorone		√	√		√	
2-Methyl-4,6-dinitrophenol		√	√		√	
1-Methylnaphthalene	√					
2-Methylnaphthalene		√	√		√	
2-Methylphenol (o-Cresol)		√	√		√	
3-Methylphenol			√			
4-Methylphenol (p-Cresol)		√	√		√	
Naphthalene	√	√	√		√	
1,4-Naphthoquinone			√			
2-Nitroaniline		√	√		√	
3-Nitroaniline						
4-Nitroaniline		√	√		√	
Nitrobenzene		√	√		√	
2-Nitrophenol		√	√		√	
3-Nitrophenol		√	√		√	
4-Nitrophenol	√	√	√		√	
4-Nitrophenylphenylether			√			
n-Nitrosodiethylamine		√	√		√	
n-Nitrosodimethylamine		√	√		√	
n-Nitrosodiphenylamine		√	√		√	
n-Nitroso-di-n-propylamine		√	√		√	

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS</u> ²	<u>Air</u> ³	<u>DMR-QA</u> ³
Pentachlorobenzene		√	√		√	
Pentachlorohexane			√			
Pentachloronitrobenzene			√			
Pentachlorophenol		√	√		√	
Phenanthrene	√	√	√		√	
Phenol		√	√		√	
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			√			
o-Toluidine		√	√		√	
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			√			
3,5-Dichloronitrobenzene			√			
Dinitramine			√			
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)		√	√			
1,2-Naphthoquinone			√			
2-Nitrotoluene		√	√			
3-Nitrotoluene		√	√			
4-Nitrotoluene		√	√			
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)		√	√			
1-Phenylpropane			√			
2,3,7,8-Tetrachloro-dibenzodioxin	√					

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS²</u>	<u>Air³</u>	<u>DMR-QA³</u>
2,3,4,5-Tetrachloronitrobenzene			√			
Tetry (methyl-2,4,6-trinitrophenylnitramine)		√	√			
2,4,6-Trinitrotoluene		√	√			
2,4-Dinitrotoluene		√	√			
2,6-Dinitrotoluene		√	√			
Nitrobenzene		√	√			
<u>Organic Disinfection By-Products</u>						
Chloral Hydrate	√					
Bromochloroacetic Acid	√					
Dibromoacetic Acid	√					
Dichloroacetic Acid	√					
Monobromoacetic Acid	√					
Monochloroacetic Acid	√					
Trichloroacetic Acid	√					
<u>PCBs</u>						
PCBs as decachlorobiphenyl	√					
PCB arochlor identification	√					
Arochlor 1016	√	√	√		√	
Arochlor 1221	√	√	√		√	
Arochlor 1232	√	√	√		√	
Arochlor 1242	√	√	√		√	
Arochlor 1248	√	√	√		√	
Arochlor 1254	√	√	√		√	
Arochlor 1260	√	√	√		√	
Arochlor 1016/1242	√	√				
<u>PCBs in Oil</u>						
Arochlor 1016			√			
Arochlor 1242			√			
Archhlor 1254			√			
<u>Carbamates and Vidate</u>						
3-Hydroxycarbofuran	√	√				
Aldicarb	√	√				
Aldicarb sulfone	√	√				
Aldicarb sulfoxide	√	√				
Baygon	√	√				
Carbaryl	√	√				
Carbofuran	√	√				
Dioxacarb			√			
Diuron		√	√			
Methiocarb	√	√	√			
Methomyl	√	√	√			
Oxamyl (Vydate)	√	√	√			
Promecarb			√			

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Propham		√	√			
<u>Pesticides</u>						
Alachlor	√	√				
Aldicarb			√			
Aldicarb sulfone			√			
Aldicarb sulfoxide			√			
Aldrin	√	√	√		√	
Alpha-chlordane		√	√		√	
Ametryn		√				
Anilazine		√				
Atraton		√				
Atrazine	√	√				
Azinphos-methyl (Guthion)		√	√			
alpha-BHC		√	√		√	
beta-BHC		√	√		√	
delta-BHC		√	√		√	
gamma-BHC (Lindane)		√	√		√	
Bromacil	√	√				
Brominal (Bromoxynil)						
Butachlor	√	√				
Butylate		√				
Carbaryl			√			
Carbofuran			√			
Carbophenothion		√				
Chlordane (technical)	√	√	√			
alpha-Chlordane		√	√			
gamma-Chlordane		√	√			
Chlorothalonil	√					
Chlorpyrifos		√	√			
Cyanazine		√				
DDD (4,4)		√	√		√	
DDE (4,4)		√	√		√	
DDT (4,4)		√	√		√	
Deethyl atrazine		√				
Deisopropyl atrazine		√				
Demeton-o		√	√			
Demeton-s		√	√			
Diaminoatrazine		√				
Diazinon	√	√	√			
Dichlorvos (DDVP)		√	√			
Dieldrin	√	√	√		√	
Dioxathion		√				
Dimethoate	√	√				
Disulfoton		√	√			
Diuron	√	√	√			
Endosulfan I		√	√		√	
Endosulfan II		√	√		√	

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS²</u>	<u>Air³</u>	<u>DMR-QA³</u>
Endosulfan sulfate		√	√		√	
Endrin	√	√	√		√	
Endrin aldehyde		√	√		√	
Endrin ketone		√	√		√	
EPTC (Eptam, s-ethyl-dipropyl thiocarbamate)		√				
Enthion		√				
Ethoprop		√				
Famphur		√				
Fenuron		√				
Fluometuron		√				
Fonophos		√				
gamma-BHC (Lindane)		√			√	
gamma-Chlordane		√	√		√	
Heptachlor	√	√	√		√	
Heptachlor epoxide (beta)	√	√	√		√	
Hexachlorobenzene	√					
Hexachlorocyclopentadiene	√					
Hexazinone		√				
3-Hydroxycarbofuran			√			
Lindane	√					
Linuron (Lorox)		√				
Malathion		√	√			
Methoxychlor	√	√	√		√	
Methyl parathion (Parathion, methyl)		√	√			
Metolachlor	√	√				
Metribuzin	√	√				
Molinate (Odran)	√					
Monuron		√				
Napropamide		√				
Neburon		√				
Parathion, ethyl		√	√			
Phorate		√	√			
Phosmet (Imidan)		√				
Promecarb			√			
Prometon	√	√				
Prometryn	√	√				
Pronamide		√				
Propachlor	√	√				
Propazine		√				
Propham		√				
Propoxur			√			
Ronnel		√	√			
Siduron		√				
Simazine	√	√				
Stiropfos		√	√			
Tebuthiuron		√				

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS</u> ²	<u>Air</u> ³	<u>DMR-QA</u> ³
Terbacil		√				
Terbufos		√	√			
Thiobencarb	√					
Toxaphene	√	√	√			
Trifluralin (Treflan)	√	√	√			
<u>Herbicides</u>						
Acifluorfen	√	√	√			
Bentazon	√	√	√			
Chloramben	√	√	√			
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	√					
Disulfoton		√	√			
Endothall	√					
Glyphosate	√					
5-Hydroxydicamba	√					
MCPA		√	√			
MCPP		√	√			
4-Nitrophenol	√	√	√			
Paraquat	√					
Pentachlorophenol	√	√	√			
Picloram	√	√	√			
Chloramben	√	√	√			
2,4,5-TP (Silvex)	√	√	√			
2,4,5-T	√	√	√			

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS²</u>	<u>Air³</u>	<u>DMR-QA³</u>
<u>Petroleum Hydrocarbons / UST Analytes</u>						
Diesel range organics (DRO)		√	√			
Gasoline range organics (GRO)		√	√			
Total petroleum hydrocarbons		√	√			
Alaska BTEX (AK-101)		√	√			
Alaska GRO (AK-101)		√	√			
Alaska DRO (AK-102)		√	√			
Alaska RRO (AK-103)			√			
Arizona No. 2 Diesel (C10-C22)		√	√			
Arizona Oil Range Organics (C22-C32)		√	√			
Arizona TPH (C10-C32)		√	√			
Massachusetts EPH		√	√			
Massachusetts VPH		√	√			
C9-C18 Aliphatic Hydrocarbons		√	√			
C19-C36 Aliphatic Hydrocarbons		√	√			
C11-C22 Aliphatic Hydrocarbons		√	√			
C5-C8 Aliphatic Hydrocarbons		√	√			
C9-C12 Aliphatic Hydrocarbons		√	√			
C9-C10 Aliphatic Hydrocarbons		√	√			
Texas 1005 No. 2 Diesel		√	√			
Texas 1005 Unleaded Gasoline		√	√			
Texas 1005 TPH		√	√			
Washington HEM/SGT-HEM (EPA 1664)		√				
Wisconsin DRO		√	√			
Wisconsin GRO		√	√			
Wisconsin PVOC		√	√			
<u>Radiochemistry</u>						
Gross alpha	√					
Gross Beta	√					
Barium-133	√					
Cesium-134	√					
Cesium-137	√					
Cobalt-60	√					
Zinc-65	√					
Tritium	√					
Iodine-131	√					
Radium-226	√					
Radium-228	√					
Strontium-89	√					
Strontium-90	√					
Uranium (Natural)	√					

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS</u> ²	<u>Air</u> ³	<u>DMR-QA</u> ³
<u>DMRQA WET</u>						
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 (SN)		√				√
Fathead minnow chronic 20% DMW-growth IC25 (ON)		√				√
Fathead minnow chronic 20% DMW-growth NOEC (ON)		√				√
Fathead minnow chronic 20% DMW-growth NOEC (SN)		√				√
Ceriodaphnia acute MHSF 20° - LC50		√				√
Ceriodaphnia acute 20% DMW 20° -LC 50		√				√
Ceriodaphnia acute MHSF 25°- LC50		√				√
Ceriodaphnia acute 20% DMW 25°-LC50		√				√
Ceriodaphnia chronic MHSF-survival NOEC		√				√
Ceriodaphnia chronic MHSF-reproduction IC25		√				√
Ceriodaphnia chronic MHSF-reproduction NOEC		√				√
Ceriodaphnia chronic 20% DMW-survival NOEC		√				√
Ceriodaphnia chronic 20% DMW-reproduction IC25		√				√

<u>Parameter/Analyte¹</u>	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS²</u>	<u>Air³</u>	<u>DMR-QA³</u>
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 40F- Growth IC25 (SN)		√				√
Mysid chronic 40F-Growth NOEC (ON)		√				√
Mysid chronic 40F-Growth NOEC (SN)		√				√
Menidia acute 40 F 25° -LC50		√				√
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)		√				√
Menidia berylina chronic 40F-survival NOEC		√				√
Menidia berylina chronic 40F-growth IC25(ON)		√				√
Menidia berylina chronic 40 F-growth NOEC(ON)		√				√
<u>Inorganics in Impinger Solution</u>						
Sulfur Dioxide				√		
Sulfuric Acid Mist				√		
Oxides of Nitrogen				√		
Fluoride				√		
Hydrogen Chloride				√		
Hydrogen Fluoride				√		
<u>Metals on Glass Fiber Filters</u>						
Antimony				√		

<u>Parameter/Analyte</u> ¹	<u>Drinking Water</u>	<u>Non-potable Water</u>	<u>Solid and Chemical Materials</u>	<u>SSAS</u> ²	<u>Air</u> ³	<u>DMR-QA</u> ³
Arsenic				√		
Barium				√		
Beryllium				√		
Cadmium				√		
Chromium				√		
Cobalt				√		
Copper				√		
Lead				√		
Manganese				√		
Nickel				√		
Selenium				√		
Silber				√		
Thallium				√		
Zinc				√		
Mercury				√		
<u>Metals in Impinger Solution</u>						
Antimony				√		
Arsenic				√		
Barium				√		
Beryllium				√		
Cadmium				√		
Chromium				√		
Cobalt				√		
Copper				√		
Lead				√		
Manganese				√		
Nickel				√		
Selenium				√		
Silber				√		
Thallium				√		
Zinc				√		
Mercury				√		

¹ Assigned values and associated uncertainties are determined by consensus of participants values, known values, certified reference values or reference values within made to target concentration ranges. These concentration ranges are consistent with the TNI FoPT tables where relevant

² TNI Stationary Source Audit Sample Program

³ Denotes non-TNI PT schemes



A handwritten signature in blue ink, appearing to read "J. C. Burt".



Accredited Proficiency Testing Provider

A2LA has accredited

ERA

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 the relevant sections of ISO Guide 34:2009 and ISO /IEC 17025: 2005, & TNI Stationary Source Audit Program Standard Volume 1, Module 1 (V1M1-2009). This provider meets the management system requirements of ISO/IEC 17043:2010, which includes the principles of ISO 9001: 2008.



Presented this day 31st day of May 2015.

Senior Director of Quality & Communications
For the Accreditation Council
Certificate Number 1539.01
Valid to December 31, 2016
Revised September 23, 2016

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