

SCOPE OF ACCREDITATION TO ISO GUIDE 43-1:1997 and ILAC G13:2007

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PROFICIENCY TESTING PROVIDER

Valid To: November 30, 2010

Certificate Number: 2432.01

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 Guide 43-1:1997, ILAC G13:2007, EPA National Standards for Water Proficiency Testing Studies Criteria Document, and relevant sections of ISO Guide 34:2000, ISO/IEC 17025:2005 and 2003 NELAC Chapter 2 and Chapter 5:

| <u>Parameter/Analyte</u> | <u>Drinking Water</u> | <u>Nonpotable Water</u> | <u>Solid and Chemical Materials</u> | <u>DMRQA*</u> |
|--------------------------|---------------------------|-----------------------------|---|---------------|
| <u>Metals</u> | | | | |
| Aluminum | √ | √ | √ | √ |
| Antimony | √ | √ | √ | √ |
| Arsenic | √ | √ | √ | √ |
| Barium | √ | √ | √ | √ |
| Beryllium | √ | √ | √ | √ |
| Boron | √ | √ | √ | |
| Cadmium | √ | √ | √ | √ |
| Calcium | √ | √ | √ | √ |
| Chromium | √ | √ | √ | √ |
| Cobalt | | √ | √ | √ |
| Copper | √ | √ | √ | √ |
| Iron | √ | √ | √ | √ |
| Lead | √ | √ | √ | √ |
| Magnesium | √ | √ | √ | √ |
| Manganese | √ | √ | √ | √ |
| Mercury | √ | √ | √ | √ |
| Molybdenum | √ | √ | √ | √ |
| Nickel | √ | √ | √ | √ |
| Potassium | √ | √ | √ | √ |
| Selenium | √ | √ | √ | √ |
| Silicon | √ | √ | √ | |
| Silver | √ | √ | √ | √ |

| <u>Parameter/Analyte</u> | <u>Drinking Water</u> | <u>Nonpotable Water</u> | <u>Solid and Chemical Materials</u> | <u>DMRQA*</u> |
|--|-----------------------|-------------------------|-------------------------------------|---------------|
| Sodium | √ | √ | √ | √ |
| Strontium | | √ | √ | √ |
| Thallium | √ | √ | √ | √ |
| Tin | | √ | √ | √ |
| Titanium | | √ | √ | √ |
| Vanadium | √ | √ | √ | √ |
| Zinc | √ | √ | √ | √ |
| <u>Nutrients</u> | | | | |
| Ammonia (as N) | | √ | √ | √ |
| Kjeldahl nitrogen | | √ | √ | √ |
| Nitrate (as N) | √ | √ | | √ |
| Nitrate-nitrite (as N) | √ | √ | | √ |
| Nitrite (as N) | √ | √ | | √ |
| Orthophosphate (as P) | √ | √ | | √ |
| Total phosphorus | | √ | √ | √ |
| <u>Demands</u> | | | | |
| Biochemical oxygen demand | | √ | | √ |
| Carbonaceous BOD | | √ | | √ |
| Chemical oxygen demand | | √ | √ | √ |
| Dissolved organic carbon | √ | √ | | √ |
| Total organic carbon | √ | √ | √ | √ |
| Total organic halides | | √ | | |
| <u>Wet Chemistry</u> | | | | |
| Acidity | | √ | | |
| Alkalinity | √ | √ | | √ |
| Total alkalinity | √ | √ | | |
| Bromate | √ | √ | | |
| Bromide | √ | √ | √ | |
| Calcium hardness (as CaCO ₃) | √ | √ | | √ |
| Chlorate | √ | √ | | |
| Chlorite | √ | √ | | |
| Chloride | √ | √ | √ | |
| Total free chlorine | √ | √ | | |
| Total residue chlorine | √ | √ | | √ |
| Hexavalent chromium | √ | √ | √ | √ |
| Color | √ | √ | | √ |
| Conductivity | √ | √ | | √ |
| Cyanide | √ | √ | √ | √ |
| Available cyanide | | | √ | |
| Reactive cyanide | | | √ | |
| Total cyanide | √ | √ | √ | √ |
| Fluoride | √ | √ | √ | √ |

| <u>Parameter/Analyte</u> | <u>Drinking Water</u> | <u>Nonpotable Water</u> | <u>Solid and Chemical Materials</u> | <u>DMRQA*</u> |
|--|-----------------------|-------------------------|-------------------------------------|---------------|
| pH | √ | √ | √ | √ |
| Magnesium | √ | √ | √ | |
| MBAAs | √ | √ | | |
| Oil and Grease | | √ | √ | √ |
| Total phenolics | | √ | √ | √ |
| Perchlorate | √ | √ | | |
| Potassium | √ | √ | √ | √ |
| Filterable residue | √ | √ | | √ |
| Nonfilterable residue | | √ | | √ |
| Silica (as Si) | √ | √ | | |
| Sodium | √ | √ | √ | |
| Specific conductance | √ | √ | | √ |
| Sulfide | | √ | √ | |
| Sulfate | √ | √ | √ | √ |
| Settleable solids | | √ | | √ |
| Total dissolved solids (180°C) | √ | √ | | √ |
| Total suspended solids | | √ | | √ |
| Total solids | √ | √ | | √ |
| Total hardness (as CaCO ₃) | √ | √ | | √ |
| Turbidity | √ | √ | | √ |
| UV254 | √ | | | |
| <u>Microbiology</u> | | | | |
| Fecal coliform, MF | | √ | | √ |
| Total coliform, MF | | √ | | √ |
| Enterococci, MF | | √ | | |
| Fecal coliform, MPN | | √ | | √ |
| Total coliform, MPN | | √ | | √ |
| Enterococci, MPN | | √ | | |
| Total coliform | √ | | | |
| Fecal coliform/E. Coli | √ | | | |
| Heterotrophic Plate Count | √ | √ | | |
| <u>Purgeable Organics (volatiles)</u> | | | | |
| Acetone | | | √ | |
| Acetonitrile | | | √ | |
| Acrolein | | | √ | |
| Benzene | √ | √ | √ | |
| Bromobenzene | √ | | √ | |
| Bromodichloromethane | √ | √ | √ | |
| Bromoform | √ | √ | √ | |
| Bromomethane | √ | √ | √ | |
| Bromochloromethane | √ | √ | √ | |
| 2-Butanone | | | √ | |

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|------------------------------------|-----------------------|-------------------------|-------------------------------------|---------------|
| t-Butyl alcohol | √ | | | |
| n-Butylbenzene | √ | | | |
| sec-Butylbenzene | √ | | | |
| tert-Butylbenzene | √ | | | |
| Carbon disulfide | | | √ | |
| Carbon tetrachloride | √ | √ | √ | |
| Chlorobenzene | √ | √ | √ | |
| Chloroethane | √ | √ | √ | |
| 2-Chloroethyl vinyl ether | | | √ | |
| Chloroform | √ | √ | √ | |
| Chloromethane | √ | √ | √ | |
| Chlorotoluene | √ | | | |
| 2-Chlorotoluene | √ | | | |
| 4-Chlorotoluene | √ | | | |
| Dibromochloromethane | √ | √ | √ | |
| 1,2-Dibromo-3-chloropropane (DBCP) | √ | | √ | |
| Dibromomethane | √ | √ | √ | |
| 1,2-Dibromomethane (EDB) | √ | | √ | |
| 1,2-Dibromoethane | √ | | √ | |
| 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 | √ | | | |
| 1,1-Dichloropropene | √ | | | |
| cis-1,3-Dichloropropene | √ | √ | √ | |
| trans-1,3-Dichloropropene | √ | √ | √ | |
| Diisopropylether (DIPE) | √ | | | |
| Ethyl benzene | √ | √ | √ | |
| Ethyl t-butyl ether | √ | | | |
| EPH | | √ | √ | |
| 2-Hexanone | | √ | √ | |
| Hexachlorobutadiene | √ | | √ | |
| Isopropylbenzene | √ | | √ | |
| 1,4-Isopropyltoluene | √ | | | |
| Methylene chloride | √ | √ | √ | |
| Methyl ethyl ketone | √ | √ | √ | |

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|---|-----------------------|-------------------------|-------------------------------------|---------------|
| (MEK) | | | | |
| 4-Methyl-2-pentanone | | √ | √ | |
| MTBE | √ | | | |
| 1-Phenylpropane | √ | | | |
| n-Propylbenzene | √ | | | |
| Styrene | √ | √ | √ | |
| t-Amylmethylether (TAME) | √ | | √ | |
| 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 | √ | | √ | |
| 1,2,3-Trichlorobenzene | √ | | | |
| 1,2,4-Trichlorobenzene | √ | | | |
| 1,2,3-Trichlorotrifluoroethane | √ | | | |
| 1,2,4-Trimethylbenzene | √ | | √ | |
| 1,3,5-Trimethylbenzene | √ | | √ | |
| Trihalomethanes | √ | | √ | |
| Vinyl acetate | √ | | √ | |
| Vinyl chloride | √ | √ | √ | |
| VPH | | √ | √ | |
| Xylenes, total | √ | √ | √ | |
| m-Xylenes | √ | √ | √ | |
| p-Xylenes | √ | √ | √ | |
| o-Xylenes | √ | √ | √ | |
| <u>Extractable Organics (semivolatiles)</u> | | | | |
| Acenaphthene | √ | √ | √ | |
| Acenaphthylene | √ | √ | √ | |
| 2-Amino-1-methylbenzene | | | √ | |
| Aniline | | | √ | |
| Anthracene | √ | √ | √ | |
| Benzidine | | √ | √ | |
| Benzoic acid | | | √ | |
| Benzo (a) anthracene | √ | √ | √ | |
| Benzo (b) fluoranthene | √ | √ | √ | |
| Benzo (k) fluoranthene | √ | √ | √ | |
| Benzo (ghi) fluoranthene | √ | √ | √ | |
| Benzo (a) pyrene | √ | √ | √ | |
| Benzyl alcohol | | | √ | |

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|-------------------------------|-----------------------|-------------------------|-------------------------------------|---------------|
| bis (2-chloroethoxy) methane | | √ | √ | |
| bis (2-ethylhexyl) adipate | √ | | | |
| bis (2-chloroisopropyl) ether | | √ | √ | |
| bis (2-ethylhexyl) phthalate | √ | √ | √ | |
| 4-Bromophenyl phenyl ether | | √ | √ | |
| Butyl benzyl phthalate | √ | √ | √ | |
| Carbazole | | | √ | |
| 4-Chloroaniline | | | √ | |
| Chloroethene | | | | |
| Chloral hydrate | √ | | | |
| Bis (2-chloroethyl) ether | | √ | √ | |
| 4-Chloro-3-methylphenol | | √ | √ | |
| 1-Chloronaphthalene | | | √ | |
| 2-Chloronaphthalene | | √ | √ | |
| 2-Chlorophenol | | √ | √ | |
| 4-Chlorophenyl phenyl ether | | √ | √ | |
| Chrysene | √ | √ | √ | |
| Cresols | | √ | √ | |
| Dibenz (a,h) anthracene | √ | √ | √ | |
| Dibenzofuran | | √ | √ | |
| Di isopropylether (DIPE) | | | √ | |
| 1,2-Dichlorobenzene | | √ | √ | |
| 1,3-Dichlorobenzene | | √ | √ | |
| 1,4-Dichlorobenzene | | √ | √ | |
| 3,3'-Dichlorobenzidine | | √ | √ | |
| 2,4-Dichlorophenol | | √ | √ | |
| 2,6-Dichlorophenol | | √ | √ | |
| Diethyl phthalate | √ | √ | √ | |
| 2,4-Dimethylphenol | | √ | √ | |
| Dimethyl phthalate | √ | √ | √ | |
| Di-n-butyl phthalate | √ | √ | √ | |
| Di-n-octyl phthalate | √ | √ | √ | |
| Dinitrobenzene | | √ | √ | |
| 2,4-Dinitrophenol | | √ | √ | |
| 2,4-Dinitrotoluene | | √ | √ | |
| 2,6-Dinitrotoluene | | √ | √ | |
| Fluoranthene | √ | √ | √ | |
| Fluorene | √ | √ | √ | |
| Hexachlorobenzene | | √ | √ | |
| Hexachlorobutadiene | | √ | √ | |
| Hexachlorocyclopentadiene | | √ | √ | |
| Hexachloroethane | | √ | √ | |
| Indeno (1,2,3-cd) pyrene | √ | √ | √ | |

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|-----------------------------------|-----------------------|-------------------------|-------------------------------------|---------------|
| Isophorone | | √ | √ | |
| Maleic anhydride | | | √ | |
| 2-Methyl-4,6-Dinitrophenol | | √ | √ | |
| 1-Methylnaphthalene | √ | | | |
| 2-Methylnaphthalene | √ | √ | √ | |
| 2-Methylphenol | | √ | √ | |
| 4-Methylphenol | | √ | √ | |
| Naphthalene | √ | √ | √ | |
| 2-Nitroaniline | | | √ | |
| 3-Nitroaniline | | | √ | |
| 4-Nitroaniline | | | √ | |
| Nitrobenzene | | √ | √ | |
| 2-Nitrophenol | | √ | √ | |
| 3-Nitrophenol | | | √ | |
| 4-Nitrophenol | | √ | √ | |
| N-Nitrosodimethylamine | | √ | | |
| N-Nitrosodi-n-propylamine | | √ | √ | |
| N-Nitrosodiphenylamine | | √ | √ | |
| N-Nitrosodiphenylamine | | √ | √ | |
| 2,2-Oxybis(1-chloropropane) | | √ | √ | |
| Pentachlorophenol | | √ | √ | |
| Phenanthrene | √ | √ | √ | |
| Phenol | | √ | √ | |
| Pyrene | √ | √ | √ | |
| Tetrachlorobenzenes | | | | |
| 1,2,3-Trichlorobenzene | √ | | | |
| 1,2,4-Trichlorobenzene | √ | √ | √ | |
| 2,4,5-Trichlorophenol | | √ | √ | |
| 2,4,6-Trichlorophenol | | √ | √ | |
| <u>Pesticides/Herbicides/PCBs</u> | | | | |
| Acifluorfen | √ | √ | | |
| Alachlor | √ | | | |
| Aldrin | √ | √ | √ | |
| Aldicarb | √ | √ | √ | |
| Aldicarb sulfone | √ | √ | √ | |
| Aldicarb sulfoxide | √ | √ | | |
| Atrazine | √ | | | |
| Azinophos methyl (Guthion) | | √ | √ | |
| Alpha-BHC | | √ | √ | |
| Beta-BHC | | √ | √ | |
| delta-BHC | | √ | √ | |
| gamma-BHC (Lindane) | √ | √ | √ | |
| Baygon/Propoxur | √ | √ | √ | |

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|--------------------------|-----------------------|-------------------------|-------------------------------------|---------------|
| Bentazon | √ | √ | | |
| Bromacil | √ | √ | | |
| Butachlor | √ | √ | | |
| Carbaryl | √ | √ | √ | |
| Carbofuran | √ | | | |
| Chloramden | √ | √ | | |
| Chlordane (technical) | √ | √ | √ | |
| alpha Chlordane | | √ | √ | |
| Gamma Chlordane | | √ | √ | |
| Chlorfenvinphos | | | √ | |
| Chloropyrifos | | | √ | |
| Cyanazine | √ | √ | | |
| 2,4-D | √ | √ | √ | |
| Dalapon | √ | | | |
| Decachlorobiphenyl | √ | | | |
| 2,4-DB | √ | √ | | |
| 4,4'-DDD | | √ | √ | |
| 4,4'-DDE | | √ | √ | |
| 4,4'-DDT | | √ | √ | |
| DCPA | √ | √ | √ | |
| Demeton-O | | | √ | |
| Demeton-S | | | √ | |
| Diazinon | | √ | √ | |
| Dicamba | √ | √ | √ | |
| 3,5 Dichlorobenzoic acid | √ | √ | | |
| Dichlorvos | √ | | √ | |
| Dichloroprop | √ | √ | √ | |
| Dieldrin | √ | √ | √ | |
| Dinoseb | √ | √ | √ | |
| Dioxacarb | | | √ | |
| Diquat | √ | √ | √ | |
| Disulfoton | | √ | √ | |
| Endosulfan I | | √ | √ | |
| Endosulfan II | | √ | √ | |
| Endothall | √ | √ | √ | |
| Endonsulfan sulfate | | √ | √ | |
| Endrin | √ | √ | √ | |
| Endrin aldehyde | | √ | √ | |
| Endrin ketone | | √ | √ | |
| EPN | | | √ | |
| Ethoprop | | | √ | |
| Fenthion | | | √ | |
| Famphur | | | √ | |
| Glyphosate | √ | √ | √ | |
| Heptachlor | √ | √ | √ | |
| Heptachlor epoxide (B) | √ | √ | √ | |

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|---|-----------------------|-------------------------|-------------------------------------|---------------|
| 3-Hydroxy carbofuran | √ | √ | √ | |
| Hexachlorobenzene | √ | | √ | |
| Hexachlorocyclopentadiene | √ | | √ | |
| Malathion | | √ | √ | |
| Metolachlor | √ | √ | √ | |
| Metribuzin | √ | √ | | |
| MCPP | | | √ | |
| Methiocarb | √ | | √ | |
| Methomyl | √ | | | |
| Methomyloxamyl | √ | | √ | |
| Methoxychlor | √ | √ | √ | |
| Molinate | √ | | | |
| Naled | | | √ | |
| Oxamyl | √ | | | |
| Paraquat | √ | √ | √ | |
| Parathion, ethyl | | √ | √ | |
| Parathion, methyl | | | √ | |
| PCB-1016 (Arochlor) | √ | √ | √ | |
| PCB-1221 | √ | √ | √ | |
| PCB-1232 | √ | √ | √ | |
| PCB-1242 | √ | √ | √ | |
| PCB-1248 | √ | √ | √ | |
| PCB-1254 | √ | √ | √ | |
| PCB-1260 | √ | √ | √ | |
| Pentachlorophenol | √ | √ | √ | |
| Picloram | √ | √ | | |
| Phorate | | | √ | |
| Promecarb | | | √ | |
| Prometon | √ | | | |
| Promethryn | | | √ | |
| Propachlor | √ | | √ | |
| Propazine | √ | | | |
| Ronnel | | | √ | |
| Simazine | √ | | | |
| Stirophos | | | √ | |
| Sulfotepp | | | √ | |
| 2,4,5-T | √ | √ | √ | |
| TEPP | | | √ | |
| 2,4,5-TP (Silvex) | √ | √ | √ | |
| Toxaphene | √ | √ | √ | |
| Trichlorfon | | | √ | |
| Trifluralin | √ | | √ | |
| <u>Inorganic Dis-Infection Byproducts</u> | | | | |
| Monochloroacetic acid | √ | | | |

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|--|-----------------------|-------------------------|-------------------------------------|---------------|
| Bromochloroacetic acid | √ | | | |
| Dibromoacetic acid | √ | | | |
| Dichloroacetic acid | √ | | | |
| Monobromoacetic acid | √ | | | |
| Trichloroacetic acid | √ | | | |
| <u>Petroleum Hydrocarbons/</u> | | | | |
| <u>UST Analytes</u> | | | | |
| Benzene | | √ | √ | |
| Ethyl benzene | | √ | √ | |
| EPH | | √ | √ | |
| MTBE | | √ | √ | |
| Toluene | | √ | √ | |
| Total Petroleum Hydrocarbons (TPH) | | √ | √ | |
| VPH | | √ | √ | |
| Diesel Range Organics (DRO) | √ | √ | | |
| Gas Range Organics (GRO) | √ | √ | | |
| <u>Explosives</u> | | | | |
| Tetryl | | √ | √ | |
| 2-amino-4,6-dinitrotoluene (2-am-DNT) | | √ | √ | |
| 2-Nitrotoluene | | √ | √ | |
| 2,4-Dinitrotoluene (2,4-DNT) | | √ | √ | |
| 2,4,6-Trinitrotoluene | | √ | √ | |
| 4-Nitrotoluene | | √ | √ | |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) | | √ | √ | |
| Nitrobenzene | | √ | √ | |
| 4-Amino-2,6-dinitrotoluene (4-am-DNT) | | √ | √ | |
| 1,3,5-Trinitrobenzene | | √ | √ | |
| 3-Nitrotoluene | | √ | √ | |
| 2,6-Dinitrotoluene (2,6-DNT) | | √ | √ | |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) | | √ | √ | |
| Nitroglycerin | | | √ | |
| Pentaerythritol tetranitrate | | | √ | |
| 1,3-Dinitrobenzene | | √ | √ | |

* Denotes non-NELAC PT schemes



THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

ACCREDITED PROFICIENCY TESTING PROVIDER

A2LA has accredited

NSI SOLUTIONS, INC.

Raleigh, NC

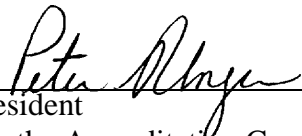
for technical competence as a

Proficiency Testing Provider

This accreditation covers the specific proficiency testing samples listed on the agreed upon Scope of Accreditation. This provider meets the ILAC G-13:2007 Guidelines for the Requirements for the Competence of Providers of Proficiency Testing, ISO Guide 43-1:1997, the EPA National Standards for Water Proficiency Testing Studies Criteria Document, as well as the relevant elements of ISO/IEC 17025:2005, ISO Guide 34 and the 2003 NELAC Chapters 2 and 5.



Presented this 29th day of January 2009.



President
For the Accreditation Council
Certificate Number 2432.01
Valid to November 30, 2010
Revised September 01, 2010

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