



Environmental Proficiency
Testing Standards

Certified Quality
Control Standards

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Certified Accurate. Certified Homogeneous. Certified Stable. Every Analyte. Every Time.

PT samples have to be right. Your laboratory's accreditation is at stake, so anything less than 100% confidence is just not good enough.

That's why we bring over 25 years of multidisciplinary reference material manufacturing and certification experience into every step of our process. And that's why our analytical validation specifications are more stringent than the current NELAC standards.

We start by certifying the purity of analyte source materials and then correcting sample assigned values for this certified purity. This correction increases the certainty of the assigned value.

We document the accuracy of each formulation and the homogeneity of each batch by instrumental analyses of each analyte in each of the samples taken from the production run. No sample is ever released into a PT study unless the results of this analytical process meet our acceptance limits, limits more stringent by 30% than the current NELAC standards.

We close the PT study by documenting the stability of every analyte in every sample. This is your assurance that the sample was still right when your lab analyzed it. We are a TNI approved PT provider holding the following accreditations: ISO 34, ISO 17025, ISO 17043, and ISO 9001.

Exceptional Value with Zero Defects

Sure, this QA process is intensive, but it works. In the years since PT privatization:

- We have never issued a PT report to a customer or accrediting agency containing inaccurately entered, reported, or assigned values.
- We have never released a PT sample into a study with an inaccurate assigned value.

That's our track record, and we provide this performance at an exceptional value. All NPW and WS quantitative PT samples are always supplied in duplicate for prices comparable to other industry providers' single-sample pricing.

PT Datalink

Much More Than On-Line Data Entry

- Simplified on-line data entry and modification screens.
- Drop-down screens for NELAC method and technology codes.
- Download your PT reports as .pdf files.
- Monitor, sort, and review your PT results over time by methods and analytes in each FOT.
- Electronically report results to accrediting authorities.
- Direct upload of PT results from your LIMS.
- Analyte statistical summaries for each study.

PT Reports

As Many As You Need! When You Need Them!

Have PT reports sent to as many accrediting authorities as you need without being “nickel and dimed.” We do not charge for multiple reports.

Make PT planning easier by accessing preliminary results on-line within 24 hours of the study close.

Rest assured your reports will be delivered to your accrediting authority securely and on time. We use only overnight express service to provide PT results to your accrediting authority. This provides traceability and proof your reports were delivered on time!

NPW Organics Proficiency Testing Studies (Available: January, April, July, October)

Our studies include all analytes required by the NELAC NPW fields of testing. Provided in duplicate, each ampule produces at least one liter of sample (with the exception of VOC's).

NPW – Volatiles

A 1.5 mL concentrate in Methanol for use with Methods 601/602, 8010/8020, 624, 8240, and 8260. The sample design will satisfy PT requirements for any of the following analytes:

1,1-Dichloroethane	10-150 ug/L	Carbon tetrachloride	15-150 ug/L
1,1-Dichloroethene	10-150 ug/L	Chlorobenzene	10-120 ug/L
1,1,1-Trichloroethane	10-100 ug/L	Chloroethane	20-120 ug/L
1,1,1,2-Tetrachloroethane	15-150 ug/L	Chloroform	10-100 ug/L
1,1,2-Trichloroethane	15-150 ug/L	Chloromethane	20-120 ug/L
1,1,2,2-Tetrachloroethane	15-150 ug/L	cis-1,2-Dichloroethene	10-150 ug/L
1,2-Dibromo-3-chloropropane	15-150 ug/L	cis-1,3-Dichloropropene	10-120 ug/L
1,2-Dichlorobenzene	10-120 ug/L	Dibromochloromethane	10-100 ug/L
1,2-Dichloroethane	15-150 ug/L	Dibromomethane	10-120 ug/L
1,2-Dichloropropane	10-150 ug/L	Dichlorodifluoromethane	20-100 ug/L
1,2,3-Trichlorobenzene	15-150 ug/L	Ethylbenzene	10-120 ug/L
1,2,3-Trichloropropane	15-150 ug/L	Ethylene dibromide	10-120 ug/L
1,2,4-Trichlorobenzene	15-150 ug/L	Methyl acetate	5-500 ug/L
1,2,4-Trimethylbenzene	10-120 ug/L	Methyl cyclohexane	20-100 ug/L
1,3,5-Trimethylbenzene	10-120 ug/L	Methylene chloride	10-120 ug/L
1,3-Dichlorobenzene	10-120 ug/L	m+p-Xylene	10-150 ug/L
1,4-Dichlorobenzene	10-120 ug/L	MTBE	15-150 ug/L
1,4-Dioxane	20-500 ug/L	Naphthalene	15-150 ug/L
2-Butanone	5-500 ug/L	n-Hexane	10-150 ug/L
2-Chloroethyl vinyl ether	5-500 ug/L	o-Xylene	10-150 ug/L
2-Hexanone	20-200 ug/L	Styrene	20-120 ug/L
4-Methyl-2-pentanone	20-200 ug/L	Tetrachloroethene	10-150 ug/L
Acetone	20-200 ug/L	Toluene	10-120 ug/L
Acetonitrile	5-500 ug/L	Total Xylenes	20-300 ug/L
Acrolein	5-500 ug/L	trans-1,2-Dichloroethene	10-120 ug/L
Acrylonitrile	5-500 ug/L	trans-1,3-Dichloropropene	10-120 ug/L
Benzene	10-120 ug/L	Trichloroethene	10-100 ug/L
Bromodichloromethane	10-100 ug/L	Trichlorofluoromethane	20-120 ug/L
Bromoform	10-100 ug/L	Vinyl acetate	5-500 ug/L
Bromomethane	20-120 ug/L	Vinyl chloride	20-120 ug/L
Carbon disulfide	5-500 ug/L		

PEO-120

QCO-120

QC Known

NPW – PCB in Water

A 1.5 mL concentrate in Acetone for use with Methods 608/8080/8081.

Arochlor 1016	2.0-10 ug/L	Arochlor 1254	2.0-10 ug/L
Arochlor 1221	2.0-10 ug/L	Arochlor 1260	2.0-10 ug/L
Arochlor 1232	2.0-10 ug/L	Arochlor 1262	2.0-10 ug/L
Arochlor 1242	2.0-10 ug/L	Arochlor 1268	2.0-10 ug/L
Arochlor 1248	2.0-10 ug/L		

PEO-020

QCO-020

QC Known

NPW Organics Proficiency Testing Studies (Available: January, April, July, October)

NPW – Base/Neutrals

A 2 x 1.5 mL concentrate set for use with Methods 625/8270. The sample design will satisfy PT requirements for any of the following analytes:

1,1-Biphenyl	30-200 ug/L	Anthracene	10-200 ug/L	Isodrin	20-200 ug/L
1,2,4,5-Tetrachlorobenzene	20-200 ug/L	Atrazine	30-200 ug/L	Isophorone	20-200 ug/L
1,2,4-Trichlorobenzene	20-200 ug/L	Benzaldehyde	30-200 ug/L	Isosafrole	20-200 ug/L
1,2-Dichlorobenzene	20-200 ug/L	Benzidine	200-1000 ug/L	Kepone	20-200 ug/L
1,2-Diphenylhydrazine	30-200 ug/L	Benzo(a)anthracene	10-200 ug/L	m-Dinitrobenzene	10-200 ug/L
1,3,5-Trinitrobenzene	20-200 ug/L	Benzo(a)pyrene	10-200 ug/L	Methapyrilene	20-200 ug/L
1,3-Dichlorobenzene	20-200 ug/L	Benzo(b)fluoranthene	20-200 ug/L	Methyl methanesulfonate	10-200 ug/L
1,3-Dinitrobenzene	20-200 ug/L	Benzo(g,h,i)perylene	10-200 ug/L	Methyl parathion	20-200 ug/L
1,4-Dichlorobenzene	20-200 ug/L	Benzo(k)fluoranthene	20-200 ug/L	n-Decane	20-200 ug/L
1,4-Dioxane	20-200 ug/L	Benzyl alcohol	30-200 ug/L	N-Nitroso-di-n-butylamine	20-200 ug/L
1,4-Naphthoquinone	20-200 ug/L	Benzyl butyl phthalate	50-200 ug/L	N-Nitroso-di-n-propylamine	30-200 ug/L
1-Chloronaphthalene	20-200 ug/L	bis(2-Chloroethoxy)methane	20-200 ug/L	N-Nitrosodiethylamine	20-200 ug/L
1-Methylnaphthalene	30-200 ug/L	bis(2-Chloroethyl)ether	20-200 ug/L	N-Nitrosodimethylamine	75-200 ug/L
1-Naphthylamine	20-200 ug/L	2,2'-Oxybis(1-Chloropropane)		N-Nitrosodiphenylamine	30-200 ug/L
2,3-Dichloroaniline	20-200 ug/L	bis(2-Ethylhexyl)phthalate	20-200 ug/L	N-Nitrosomethylethylamine	20-200 ug/L
2,4-Dinitrotoluene	20-200 ug/L	Caprolactam	30-200 ug/L	N-Nitrosomorpholine	20-200 ug/L
2,6-Dinitrotoluene	20-200 ug/L	Carbazole	20-200 ug/L	N-Nitrosopiperidine	20-200 ug/L
2-Acetylaminofluorene	20-200 ug/L	Chlorobenzilate	20-200 ug/L	N-Nitrosopyrrolidine	20-200 ug/L
2-Chloronaphthalene	20-200 ug/L	Chrysene	10-200 ug/L	n-Octadecane	20-200 ug/L
2-Methylcholanthrene	10-200 ug/L	Di-n-butyl phthalate	40-200 ug/L	Naphthalene	20-200 ug/L
2-Methylnaphthalene	20-200 ug/L	Di-n-octyl phthalate	30-200 ug/L	Nitrobenzene	20-200 ug/L
2-Naphthylamine	20-200 ug/L	Diallylate	20-200 ug/L	o,o,o-Triethylphosphorothioate	20-200 ug/L
2-Nitroaniline	10-200 ug/L	Dibenz(a,h)anthracene	20-200 ug/L	o-Dinitrobenzene	10-200 ug/L
2-Picoline	20-200 ug/L	Dibenzofuran	30-200 ug/L	o-Toluidine	20-200 ug/L
3,3-Dimethylbenzidine	20-200 ug/L	Diethyl phthalate	50-200 ug/L	p-Dimethylaminoazobenzene	20-200 ug/L
3,3'-Dichlorobenzidine	50-200 ug/L	Dimethoate	20-200 ug/L	p-Dinitrobenzene	10-200 ug/L
3-Methylcholanthrene	20-200 ug/L	Dimethyl phthalate	50-200 ug/L	p-Phenylenediamine	20-200 ug/L
3-Nitroaniline	30-200 ug/L	Dinoseb	20-200 ug/L	Parathion	20-200 ug/L
4-Aminobiphenyl	20-200 ug/L	Diphenyl ether	20-200 ug/L	Pentachlorobenzene	20-200 ug/L
4-Bromophenyl phenyl ether	20-200 ug/L	Disulfoton	20-200 ug/L	Pentachlorohexane	20-200 ug/L
4-Chloroaniline	10-200 ug/L	Ethyl methanesulfonate	30-200 ug/L	Pentachloronitrobenzene	20-200 ug/L
4-Chlorophenyl phenyl ether	20-200 ug/L	Famphur	20-200 ug/L	Phenacetin	20-200 ug/L
4-Nitroaniline	10-200 ug/L	Fluoranthene	30-200 ug/L	Phenanthrene	10-200 ug/L
4-Nitroquinoline-1-oxide	20-200 ug/L	Fluorene	10-200 ug/L	Phorate	20-200 ug/L
5-Nitro-o-toluidine	20-200 ug/L	Hexachlorobenzene	20-200 ug/L	Pronamide	20-200 ug/L
7,12-Dimethylbenz(a)anthracene	20-200 ug/L	Hexachlorobutadiene	50-200 ug/L	Pyrene	10-200 ug/L
a,a-Dimethylphenylamine	20-200 ug/L	Hexachlorocyclopentadiene	50-200 ug/L	Pyridine	10-200 ug/L
Acenaphthene	10-200 ug/L	Hexachloroethane	50-200 ug/L	Safrole	20-200 ug/L
Acenaphthylene	10-200 ug/L	Hexachlorophene	20-200 ug/L	Sulfotepp	20-200 ug/L
Acetophenone	20-200 ug/L	Hexachloropropene	20-200 ug/L	Thionazin	20-200 ug/L
Aniline	30-200 ug/L	Indeno(1,2,3-c,d)pyrene	30-200 ug/L		

PEO-121

QCO-121

QC Known

NOTE: This sample is provided in a two-ampule set. The Benzidine and 3,3'-Dichlorobenzidine are segregated to assure stability throughout the PT study.

NPW Organics Proficiency Testing Studies (Available: January, April, July, October)

NPW - Acids

A 1.5 mL concentrate in Acetone for use with Methods 604/8040/8041 or 625/8270. The sample design will satisfy PT requirements for any of the following analytes:

2-Chlorophenol	30-200 ug/L
2-Cyclohexyl-4,6-dinitrophenol	50-200 ug/L
2-Methyl-4,6-dinitrophenol	40-200 ug/L
2-Methylphenol	40-200 ug/L
2-Nitrophenol	50-200 ug/L
2,3,4,5-Tetrachlorophenol	50-200 ug/L
2,3,4,6-Tetrachlorophenol	50-200 ug/L
2,4-Dichlorophenol	30-200 ug/L
2,4-Dimethylphenol	40-200 ug/L
2,4-Dinitrophenol	100-200 ug/L
2,4,5-Trichlorophenol	30-200 ug/L
2,4,6-Trichlorophenol	30-200 ug/L
2,6-Dichlorophenol	30-200 ug/L
4-Chloro-3-methylphenol	30-200 ug/L
4-Methylphenol	50-200 ug/L
4-Nitrophenol	100-200 ug/L
Benzoic acid	50-200 ug/L
Pentachlorophenol	40-200 ug/L
Phenol	100-200 ug/L

PEO-022
QCO-022

QC Known

NPW - OP Pesticides

A 1.5 mL concentrate in Acetone for determination of:

Azinphos-methyl (Guthion)	3.6-13.8 ug/L
Bolstar	2.0-20 ug/L
Chlorpyrifos	2.0-20 ug/L
Demeton-o	2.0-20 ug/L
Demeton-s	2.0-20 ug/L
Diazinon	2.0-15 ug/L
Dichlofenthion	2.0-20 ug/L
Dichlorvos	2.0-20 ug/L
Disulfoton	2.0-15 ug/L
Ethion	2.0-20 ug/L
Ethoprop	2.0-20 ug/L
Malathion	2.0-20 ug/L
Parathion, ethyl	3.0-20 ug/L
Stirophos	2.0-20 ug/L
Tokuthion	2.0-20 ug/L
Trichloronate	2.0-20 ug/L

NOTE: This sample is not listed in the NELAC NPW Field of Testing.

PEO-100
QCO-100

QC Known

NPW - Organochlorine Pesticides

A 1.5 mL concentrate in Ethyl Acetate for use with Methods 608/8080/8081. Each sample contains at least 80% of the following:

Aldrin	1.0-15 ug/L
alpha-BHC	2.0-20 ug/L
alpha-Chlordane	1.0-10 ug/L
beta-BHC	2.0-20 ug/L
gamma-BHC	2.0-20 ug/L
gamma-Chlordane	1.0-10 ug/L
delta-BHC	2.0-20 ug/L
4,4'-DDD	2.0-10 ug/L
4,4'-DDT	1.0-10 ug/L
4,4'-DDE	1.0-10 ug/L
Dieldrin	1.0-15 ug/L
Endosulfan I	4.0-20 ug/L
Endosulfan II	4.0-20 ug/L
Endosulfan sulfate	4.0-20 ug/L
Endrin	2.0-20 ug/L
Endrin ketone	4.0-20 ug/L
Endrin aldehyde	4.0-20 ug/L
Heptachlor	1.0-10 ug/L
Heptachlor epoxide (B)	1.0-10 ug/L
Isodrin	2.0-20 ug/L
Kepone	2.0-20 ug/L
Methoxychlor	2.0-20 ug/L

PEO-122
QCO-122

QC Known

NPW – Herbicides

A 1.5 mL concentrate in MTBE for determination of Dicamba, 2,4-D, 2,4,5-T, Silvex, 2,4-DB, Dalapon, Dichloroprop, Dinoseb, MCPA, MCPP, and Pentachlorophenol. Formulated in the NELAC range of 2.00-10.0 ug/L.

PEO-094
QCO-094

QC Known

NPW – Chlordane (Total)

A 1.5 mL concentrate in Acetone for use with Methods 608/8080/8081. Formulated in the NELAC range of 3.00-25.0 ug/L.

PEO-024-2
QCO-024-2

QC Known

NPW Organics Proficiency Testing Studies (Available: January, April, July, October)

NPW - Low Level PAHs

A 1.5 mL concentrate in Acetonitrile for determination of PAHs by Methods 610 or 8310. The sample will contain at least 80% of the analytes drawn from the following list:

1-Methylnaphthalene	2-20 ug/L	Benzo(a)pyrene	0.5-5 ug/L
2-Methylnaphthalene	2-20 ug/L	Chrysene	0.5-5 ug/L
Acenaphthene	2-20 ug/L	Dibenzo(a,h)anthracene	0.5-5 ug/L
Acenaphthylene	2-20 ug/L	Fluoranthene	0.5-5 ug/L
Anthracene	0.5-5 ug/L	Fluorene	2-10 ug/L
Benzo(a)anthracene	0.5-5 ug/L	Indeno(1,2,3-c,d)pyrene	0.5-5 ug/L
Benzo(b)fluoranthene	0.5-5 ug/L	Naphthalene	2-10 ug/L
Benzo(k)fluoranthene	0.5-5 ug/L	Phenanthrene	0.5-5 ug/L
Benzo(g,h,i)perylene	0.5-5 ug/L	Pyrene	0.5-5 ug/L

PEO-135

QCO-135

QC Known

NPW - Nitroaromatics/Nitramines in Water

A 1.5 mL concentrate in Acetonitrile for determination of explosive residues in water. The sample contains at least 80% of the following analytes formulated in the range of 1.0-20.0 ug/L.

1,3-Dinitrobenzene	4-Amino-2,6-dinitrotoluene
1,3,5-Trinitrobenzene	4-Nitrotoluene
2-Amino-4,6-dinitrotoluene	HMX
2-Nitrotoluene	Nitrobenzene
2,4-Dinitrotoluene	Nitroglycerin
2,4,6-Trinitrotoluene	Nitroguanidine
2,6-Dinitrotoluene	PETN
3-Nitrotoluene	RDX
3,5 Dichloroaniline	Tetryl

NOTE: This sample is not listed in the NELAC NPW Field of Testing.

PEO-136

QCO-136

QC Known

NPW - PCBs in Oil

A 2 x 2 g set in Transformer Oil for determination of:

Arochlor 1016	17-50 mg/kg
Arochlor 1242	17-50 mg/kg
Arochlor 1254	16-50 mg/kg
Arochlor 1260	12-50 mg/kg

NOTE: This sample is not listed in the NELAC NPW Field of Testing.

PEO-072

QCO-072

QC Known

NPW - BTEX by PID

A 1.5 mL concentrate in Methanol for determination of:

Benzene	10-120 ug/L
Ethylbenzene	10-120 ug/L
Toluene	10-120 ug/L
m+p-Xylene	10-150 ug/L
o-Xylene	10-150 ug/L
Total Xylenes	20-300 ug/L
MTBE	15-150 ug/L
Naphthalene	15-150 ug/L

PEO-150

QCO-150

QC Known

NPW – Toxaphene

A 1.5 mL concentrate in Acetone for determination of Toxaphene. Formulated in the NELAC range of 20-100 ug/L.

PEO-093

QCO-093

QC Known

NPW – Low Level Halocarbons

A 1.5 mL concentrate in P/T Methanol for determination of 1,2-Dibromoethane (EDB) 1,2-Dibromo-3-chloropropane (DBCP), and 1,2,3-Trichloropropane. Formulated in the NELAC range of 0.2-2.0 ug/L.

PEO-103

QCO-103

QC Known

NPW Organics Proficiency Testing Studies (Available: January, April, July, October)

NPW - Supplemental Volatiles

A 1.5 mL concentrate in Methanol for determination of Supplemental Volatiles. This sample will contain a subset of analytes from the following list:

1-Chlorohexane	10-200 ug/L	Diisopropyl ether	5-200 ug/L
1,1-Dichloropropene	10-200 ug/L	Ethanol	500-5000 ug/L
1,1,1,2-Tetrachloroethane	10-200 ug/L	Ethyl methacrylate	10-200 ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	10-200 ug/L	Ethyl-tert-butyl ether	5-200 ug/L
1,2-Dibromo-3-chloropropane	10-200 ug/L	Hexachlorobutadiene	10-200 ug/L
1,2-Dibromoethane	10-200 ug/L	Iodomethane	10-200 ug/L
1,2,3-Trichlorobenzene	10-200 ug/L	Isobutyl alcohol	10-1000 ug/L
1,2,3-Trichloropropane	10-200 ug/L	Isopropylbenzene	10-200 ug/L
1,2,4-Trimethylbenzene	10-200 ug/L	Methacrylonitrile	10-200 ug/L
1,3-Dichloropropane	10-200 ug/L	Methyl methacrylate	10-200 ug/L
1,3,5-Trichlorobenzene	10-200 ug/L	n-Butylbenzene	10-200 ug/L
1,3,5-Trimethylbenzene	10-200 ug/L	n-Hexane	10-200 ug/L
1,4-Dioxane	10-1000 ug/L	n-Propylbenzene	10-200 ug/L
2-Chlorotoluene	10-200 ug/L	p-Isopropyltoluene	10-200 ug/L
2,2-Dichloropropane	10-200 ug/L	Pentachloroethane	10-200 ug/L
3,3-Dimethyl-1-butanol	5-500 ug/L	Propionitrile	10-200 ug/L
4-Chlorotoluene	10-200 ug/L	sec-Butylbenzene	10-200 ug/L
Allyl chloride	10-200 ug/L	t-Amyl alcohol	5-500 ug/L
Bromobenzene	10-200 ug/L	t-Amyl methyl ether	5-500 ug/L
Bromochloromethane	10-200 ug/L	t-Butyl alcohol	5-500 ug/L
Chloroprene	10-200 ug/L	t-Butyl formate	50-500 ug/L
Cyclohexanone	10-200 ug/L	tert-Butylbenzene	10-200 ug/L
cis-1,4-Dichloro-2-butene	10-200 ug/L	Tetrahydrofuran	20-200 ug/L
Diethyl ether	5-500 ug/L	trans-1,4-Dichloro-2-butene	10-200 ug/L

NOTE: This sample is not listed in the NELAC NPW Field of Testing.

PEO-119

QCO-119 QC Known

NPW - Diesel Range Organics (DRO)

A 1.5 mL concentrate in Methanol for determination of DRO. Formulated in the NELAC range of 800-6000 ug/L.

PEO-101

QCO-101 QC Known

NPW - Gasoline Range Organics (GRO)

A 1.5 mL concentrate in Methanol for determination of GRO. Formulated in the NELAC range of 400-4000 ug/L.

PEO-102

QCO-102 QC Known

NPW Organics Proficiency Testing Studies (Available: January, April, July, October)

EPA Organics Set

NPW-Volatiles	NPW-PCB in Water
NPW-Base/Neutrals	NPW-Acids
NPW-Pesticides	NPW-Chlordane
NPW-Toxaphene	NPW-Herbicides

PEO-025K Semi-Annually
One-Time Set

QCO-025K QC Known
Semi-Annually
One-Time Set

Full Organics Set

NPW-Volatiles	NPW-PCB in Water
NPW-Base/Neutrals	NPW-Acids
NPW-Pesticides	NPW-Chlordane
NPW-Nitroaromatics/Nitramines	NPW-Toxaphene
NPW-Herbicides	NPW-GRO
NPW-DRO	NPW-OP Pesticides
NPW-Low Level PAHs	

PEO-062K Semi-Annually
One-Time Set

QCO-062K QC Known
Semi-Annually
One-Time Set

2019 NPW Study Schedule

Study Number	Study Opens	Study Closes
WP-253*	Jan. 15	Feb. 28
WP-254	Feb. 26	April 10
WP-255*	April 9	May 23
WP-256	May 7	June 20
WP-257*	July 16	Aug. 29
WP-258	Aug. 13	Sept. 26
WP-259	Sept. 4	Oct. 18
WP-260*	Oct. 9	Nov. 22
WP-261	Nov. 6	Dec. 20

*Denotes Full Organic & Inorganic PT Studies. The others are Inorganic Only PT Studies.
Dates are subject to change based on regulatory requirements.

NPW Inorganics Proficiency Testing Studies

NPW - Demand

A 21 mL concentrate for determination of Demand.
Each ampule produces 2 liters of sample.

TOC	6-100 mg/L
COD	30-250 mg/L
BOD	18-230 mg/L
CBOD	18-230 mg/L

PEI-026
QCI-026 QC Known

NPW - Simple Nutrients

A 21 mL concentrate to be analyzed for Simple Nutrients.
Each ampule produces 2 liters of sample.

Ammonia as N	1.0-20 mg/L
Orthophosphate as P	0.5-5.5 mg/L
Nitrate as N	2.0-25 mg/L
Nitrate/Nitrite-N	2.5-25 mg/L

PEI-138
QCI-138 QC Known

NPW - Minerals

A 500 mL ready-to-use sample packaged in a HDPE
bottle to be analyzed for:

Potassium	4.0-40 mg/L
Sodium	10-100 mg/L
Chloride	35-275 mg/L
Sulfate	5.0-125 mg/L
Fluoride	0.4-4 mg/L
TDS at 180°C	140-800 mg/L
Conductivity	200-1200 umhos/cm
Alkalinity	25-400 mg/L

PEI-136
QCI-136 QC Known

NPW - Complex Nutrients

A 21 mL concentrate to be analyzed for Complex Nutrients.
Each ampule produces 2 liters of sample.

TKN	3.0-35 mg/L
Total Phosphorus	0.5-10 mg/L

PEI-139
QCI-139 QC Known

NPW - Oil and Grease

A 3.2 mL concentrate for determination of Oil and Grease.
Formulated in the NELAC range of 20-200 mg/L. Each
ampule produces 3 liters of sample.

PEI-029
QCI-029 QC Known

NPW - Hardness

A 250 mL ready-to-use sample packaged in a HDPE
bottle to be analyzed for:

Calcium	10-100 mg/L
Magnesium	4.0-40 mg/L
Total Hardness	40-415 mg/L
Calcium Hardness	25-250 mg/L

PEI-137
QCI-137 QC Known

NPW - Amenable and Total Cyanide

A 21 mL concentrate for determination of Amenable
Cyanide and Total Cyanide. Formulated in the NELAC
range
of 0.1-1 mg/L. Each ampule produces 2 liters of sample.

PEI-031
QCI-031 QC Known

NPW - Total Residual Chlorine

A 2.2 mL concentrate for determination of Total Residual
Chlorine. Formulated in the NELAC range of 0.5-3.0 mg/L.
Each ampule produces 2 liters of sample.

PEI-033
QCI-033 QC Known

NPW - Total Phenolics

A 5.0 mL concentrate for determination of Total Phenolics.
Formulated in the NELAC range of 0.5-5 mg/L. Each
ampule
produces 5 liters of sample.

PEI-032
QCI-032 QC Known

NPW Inorganics Proficiency Testing Studies

NPW - Trace Metals

A 2 x 21 mL amber vial set for analysis of the following elements. Each ampule produces 2 liters of sample.

Aluminum	200-4000 ug/L	Manganese	200-2000 ug/L
Antimony	90-900 ug/L	Molybdenum	60-600 ug/L
Arsenic	90-900 ug/L	Nickel	200-2000 ug/L
Barium	100-2500 ug/L	Selenium	100-1000 ug/L
Beryllium	50-500 ug/L	Silver	100-1000 ug/L
Cadmium	100-1000 ug/L	Strontium	50-500 ug/L
Chromium	100-1000 ug/L	Thallium	80-800 ug/L
Cobalt	100-1000 ug/L	Tin	200-2000 ug/L
Copper	100-1000 ug/L	Titanium	60-300 ug/L
Iron	200-4000 ug/L	Vanadium	50-2000 ug/L
Lead	100-1500 ug/L	Zinc	300-2000 ug/L

PEI-034
QCI-034 QC Known

NPW - Mercury

A 21 mL concentrate for determination of Mercury. Formulated in the NELAC range of 3.0-30 ug/L. Each ampule produces 2 liters of sample.

PEI-087
QCI-087 QC Known

NPW - Residue

A 500 mL ready-to-use whole volume sample to be analyzed for Total Suspended Solids in the NELAC range of 20-100 mg/L and Total Solids formulated in the NELAC range of 140-800 mg/L.

PEI-079
QCI-079 QC Known

NPW - Turbidity

A 21 mL concentrate for determination of Turbidity in the NELAC range of 2.0-30 NTU. Formazin based. Each container produces 2 liters of sample.

PEI-092
QCI-092 QC Known

NPW - pH

A 250 mL whole volume sample to be analyzed for pH without dilution. Formulated in the NELAC range of 5.0-10 units.

PEI-035
QCI-035 QC Known

NPW - Hexavalent Chromium

A 10.5 mL concentrate for determination of Hexavalent Chromium. Formulated in the NELAC range of 90-900 ug/L. Each ampule produces 2 liters of sample.

PEI-095
QCI-095 QC Known

NPW - Settleable Solids

A natural solid for quantitative transfer to a 1 liter Class A volumetric flask with dilution to 1 liter in reagent water. Formulated in the NELAC range of 5.0-50 mL/L. Each vial produces 1 liter of sample.

PEI-126
QCI-126 QC Known

NPW - Nitrite

A 21 mL concentrate for determination of Nitrite. Formulated in the NELAC range of 0.4-4.0 mg/L. Each ampule produces 2 liters of sample.

PEI-100
QCI-100 QC Known

NPW Inorganics Proficiency Testing Studies

NPW - Bromide

A 21 mL concentrate for determination of Bromide. Formulated in the NELAC range of 1.0-10 mg/L. Each ampule produces 2 liters of sample.

PEI-110
QCI-134 QC Known

NPW - Boron

A 21 mL concentrate for determination of Boron. Formulated in the NELAC range of 800-2000 ug/L. Each ampule produces 2 liters of sample.

PEI-125
QCI-125 QC Known

NPW - Volatile Solids

A screw-cap vial containing a solid material for dilution to 1000 mL. Formulated in the NELAC range of 100-500 mg/L. Each vial produces at least 1 liter of sample.

PEI-127
QCI-127 QC Known

NPW - Sulfide

A 10.5 mL concentrate for determination of Sulfide. Formulated in the NELAC range of 2.0-10 mg/L. Each ampule produces 2 liters of sample.

PEI-086
QCI-086 QC Known

NPW - Silica

A 21 mL concentrate for determination of Silica. Formulated in the NELAC range of 50-250 mg/L. Each vial produces 2 liters of sample.

PEI-101
QCI-101 QC Known

NPW - MBAs

A 10.5 mL concentrate for determination of MBAs. Formulated in the NELAC range of 0.2-1.0 mg/L. Each ampule produces 2 liters of sample.

PEI-124
QCI-124 QC Known

NPW - Acidity

A 100 mL sample for determination of Acidity. Formulated in the NELAC range of 650-1800 mg/L.

PEI-099
QCI-099 QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - TOX

A 5.5 mL concentrate in Methanol for determination of TOX. Formulated in the range of 300-1500 ug/L. Each ampule produces 3 liters of sample.

PEI-104
QCI-104 QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - Color

A 100 mL whole-volume sample for determination of Color. Formulated in the NELAC range of 10-75 CU.

PEI-130
QCI-130 QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - Ignitability

A 110 mL sample for Ignitability in the range of 100-200°F. Ground Shipping Only. Not supplied in duplicate.

PEI-191
QCI-191 QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - Dissolved Oxygen

A 125 mL ready-to-use bottle for determination of Dissolved Oxygen in the range of 0-20 mg/L.

PEI-192
QCI-192 QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW Inorganics Proficiency Testing Studies

NPW – Perchlorate

A 5.0 mL concentrate for determination of Perchlorate. Formulated in the range of 4.0-20 ug/L. Each ampule produces 2 liters of sample.

PEI-146

QCI-146

QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - SGT - HEM (TPH)

A 5 mL sample for dilution to 1000 mL. Can be used for IR Methods as well as Gravimetric Methods. Formulated in the NELAC range of 20-200 mg/L. Each ampule produces 1 liter of sample.

PEI-129

QCI-129

QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - Low-Level Total Residual Chlorine

A single sample for determination of Low-Level Total Residual Chlorine in the range of 50-250 ug/L.

PEI-096

QCI-096

QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - Trace Level Mercury

Sample contains both organic and inorganic mercury in the range of 20-100 ng/L. Provided as a 5 mL concentrate for dilution to 1000 mL.

PEO-137

QCO-137

QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

NPW - Uranium

A 21 mL concentrate for determination of uranium. Formulated in the range of 3.0-104 ug/L. Each ampule produces 2 liters of sample.

PEI-180

QCI-190

QC Known

NOTE: Available in studies WP-253, WP-255, WP-257, WP-259, WP-260

Full NELAC Inorganics Set

Demand	Oil and Grease	Trace Metals
Minerals	Bromide	Volatile Solids
Residue	Total Cyanide	Mercury
Hardness	MBAs	Sulfide
Simple Nutrients	Total Phenolics	pH
Nitrite	Boron	Hexavalent Chromium
Silica	Total Residual Chlorine	Turbidity
Complex Nutrients	Settleable Solids	

PEI-035K

Semi-Annually
One-Time Set

QCI-036K

QC Known
Semi-Annually
One-Time Set

EPA Inorganics NPW Set

Demand	Trace Metals	Oil and Grease
Total Phenolics	Simple Nutrients	Residue
Minerals	Mercury	Total Cyanide
Total Residual Chlorine	Complex Nutrients	Hexavalent Chromium
Hardness	pH	

PEI-037K

Semi-Annually
One-Time Set

QCI-035K

QC Known
Semi-Annually
One-Time Set

2019 NPW Study Schedule

Study Number	Study Opens	Study Closes
WP-253*	Jan. 15	Feb. 28
WP-254	Feb. 26	April 10
WP-255*	April 9	May 23
WP-256	May 7	June 20
WP-257*	July 16	Aug. 29
WP-258	Aug. 13	Sept. 26
WP-259	Sept. 4	Oct. 18
WP-260*	Oct. 9	Nov. 22
WP-261	Nov. 6	Dec. 20

*Denotes Full Organic & Inorganic PT Studies. The others are Inorganic Only PT Studies.
Dates are subject to change based on regulatory requirements.

An NSI Lab Solutions Exclusive!

All Quantitative Micro PT Samples are Supplied in Duplicate.

Microbiological PT Standards

NPW - Coliforms /E. coli

Designed for use with all MPN and MF procedures. Sample supplied as a dehydrated pellet in the NELAC range of 20-2400 CFU/MPN per 100 mL. Sterile hydration buffer included. Evaluated for Total Coliform, Fecal Coliform, and E. coli. Store in freezer.

MIC-003
MIC-QC2

QC Known

NPW - Fecal Coliform in Sludge

A 1 gram lyophilized sludge sample containing fecal coliforms from 10E3 mpn/g to 10E6 mpn/g. Designed for use with EPA 1680/1681.

MIC-015
MIC-QC17

NOTE: Available in studies MP-172, MP-174, MP-175, MP-177

NPW - Enterococcus/Fecal Strep

Designed for use with all MPN and MF procedures. Sample supplied as a dehydrated pellet in the NELAC range of 20-1000 CFU/MPN per 100 mL. Sterile hydration buffer included. Store in freezer.

MIC-004
MIC-QC5

QC Known

Study Number	Study Opens	Study Closes
MP-172	Jan. 7	Feb. 20
MP-173	March 5	April 18
MP-174	April 3	May 17
MP-175	July 8	Aug. 21
MP-176	Sept. 9	Oct. 23
MP-177	Oct. 7	Nov. 20

Dates are subject to change based on regulatory requirements.

NPW - Standard Plate Count

One stabilized pellet containing a heterotrophic bacteria in the range of 5-500 MPN per 100 mL. Sterile hydration buffer included. Store in freezer.

MIC-010
MIC-QC15

QC Known

Quantitative Legionella PT

Designed for use with Legiolert™ or BCYE plate count methods. Sample supplied as a dehydrated pellet in the range of 20-2400 CFU. Supplied in duplicate for convenience with sterile hydration buffer.

MIC-014
MIC-QC16

Study Number	Study Opens	Study Closes
LP-009	Jan. 7	Feb. 20
LP-010	April 17	May 31
LP-011	July 2	Aug. 15
LP-012	Oct. 14	Nov. 27

Dates are subject to change based on regulatory requirements.

NOTE: Overnight shipping and HAZMAT fees apply to each order and are prepaid and added to your invoice. All microbiological samples are shipped in a cold pack to maintain integrity.

Product Listings—Microbiological CRMs

Except where noted, standards are formulated at 1000-2000 CFU. Actual certified values are listed on an accompanying COA.

Single Organisms - High Level	10 Vials Catalog#	20 Vials Catalog#
<i>P. aeruginosa</i> (NCTC 12951)	10662-10	10662-20X
<i>E. aerogenes</i> (NCTC 10006)	10006-10	10006-20X
<i>E. coli</i> (NCTC 9001)	9001-10	9001-20X
<i>Klebsiella</i> spp (NCTC 8167)	8167-10	8167-20X
<i>E. faecalis</i> (NCTC 775) - High (1000-1500)	775H-10	775H-20X
HPC Control* (5-500)	HPCQC-10	HPCQC-20X

Except where noted, standards are formulated at < 200 CFU. Actual certified values are listed on an accompanying COA.

Single Organisms - Low Level	10 Vials Catalog#	20 Vials Catalog#
<i>P. aeruginosa</i> (NCTC 12951)	10662L-10	10662L-20X
<i>E. aerogenes</i> (NCTC 10006)	10006L-10	10006L-20X
<i>E. coli</i> (NCTC 9001)	9001L-10	9001L-20X
<i>Klebsiella</i> spp (NCTC 8167)	8167L-10	8167L-20X
<i>E. faecalis</i> (NCTC 775)	775L-10	775L-20X
<i>S.bovis</i> (NCTC 8177)	8177L-10	8177L-20X

Coliform QC Check Kit

4 Each of *E. coli*, *E.aerogenes*, and *P. aeruginosa* (1000-2000 CFU of each).

COL-QCK 12 vials

Fecal Coliform in Sludge QC

A pack of 5 individual 1 gram vials of lyophilized sludge with fecal coliform set at 10E3 to 10E6 mpn/g.

MIC-SLUDGE-5

Colilert®, Quanti-Tray®, Colilert-18®, and SimPlate® are registered trademarks of IDEXX Laboratories, Inc.

Universal Water Microbe Cocktail

QC all of your water microbiology assays with just a single flash dissolve lyophilized pellet. Each pellet can be used to QC the following microbiology analyses at the approximate levels shown after hydration to 100mL:

Total Coliform	~2400CFU/100mL
<i>E.coli</i>	~1000CFU/100mL
Fecal Coliform	~500CFU/100mL
<i>P.aeruginosa</i>	~1000CFU/100mL
Enterococci	~1000CFU/100mL
HPC	~50CFU/100mL

Source organisms are no more than two passages from primary NCTC cultures. To use, dissolve a single pellet into 100mL of sterile DI water. Applicable for use with MTF, IDEXX and Plate Count methods

MIC-UNV-10 10 pellets
MIC-UNV-20 20 pellets

DMRQA-39

Demand

A 21 mL concentrate for determination of Demand. Each ampule produces 2 liters of sample.

TOC	6-100 mg/L
COD	30-250 mg/L
BOD	18-230 mg/L
CBOD	18-230 mg/L

PEI-026
QCI-026 QC Known

Hardness

A 250 mL ready-to-use sample packaged in a HDPE bottle to be analyzed for:

Calcium	10-100 mg/L
Magnesium	4.0-40 mg/L
Total Hardness	40-415 mg/L
Calcium Hardness	25-250 mg/L

PEI-137
QCI-137 QC Known

Complex Nutrients

A 21 mL concentrate to be analyzed for Complex Nutrients. Each ampule produces 2 liters of sample.

TKN	3.0-35 mg/L
Total Phosphorus	0.5-10 mg/L

PEI-139
QCI-139 QC Known

Amenable and Total Cyanide

A 21 mL concentrate for determination of Amenable Cyanide and Total Cyanide. Formulated in the NELAC range of 0.1-1 mg/L. Each ampule produces 2 liters of sample.

PEI-031
QCI-031 QC Known

Minerals

A 500 mL ready-to-use sample packaged in a HDPE bottle to be analyzed for:

Potassium	4.0-40 mg/L
Sodium	10-100 mg/L
Chloride	35-275 mg/L
Sulfate	5.0-125 mg/L
Fluoride	0.4-4 mg/L
TDS at 180°C	140-800 mg/L
Conductivity	200-1200 umhos/cm
Alkalinity	25-400 mg/L

PEI-136
QCI-136 QC Known

Simple Nutrients

A 21 mL concentrate to be analyzed for Simple Nutrients. Each ampule produces 2 liters of sample.

Ammonia as N	1.0-20 mg/L
Orthophosphate as P	0.5-5.5 mg/L
Nitrate as N	2.0-25 mg/L
Nitrate/Nitrite-N	2.5-25 mg/L

PEI-138
QCI-138 QC Known

Oil and Grease

A 3.2 mL concentrate for determination of Oil and Grease. Formulated in the NELAC range of 20-200 mg/L. Each ampule produces 3 liters of sample.

PEI-029
QCI-029 QC Known

Total Phenolics

A 5.0 mL concentrate for determination of Total Phenolics. Formulated in the NELAC range of 0.5-5 mg/L. Each ampule produces 3 liters of sample.

PEI-032
QCI-032 QC Known

DMRQA-39

Coliforms /E. coli

Designed for use with all MPN and MF procedures. Sample supplied as a stabilized pellet in the NELAC range of 20-2400 CFU/MPN per 100 mL. Sterile diluent included. Evaluated for Total Coliform, Fecal Coliform, and E. coli. Supplied in duplicate. Overnight shipping only.

MIC-003
MIC-QC2

QC Known

Total Residual Chlorine

A 2.2 mL concentrate for determination of Total Residual Chlorine. Formulated in the NELAC range of 0.5-3.0 mg/L. Each ampule produces 2 liters of sample.

PEI-033
QCI-033

QC Known

Trace Metals

A 2 x 21 mL amber vial set for analysis of the following elements. Each ampule produces 2 liters of sample.

Aluminum	200-4000 ug/L	Copper	100-1000 ug/L	Strontium	50-500 ug/L
Antimony	90-900 ug/L	Iron	200-4000 ug/L	Thallium	80-800 ug/L
Arsenic	90-900 ug/L	Lead	100-1500 ug/L	Tin	200-2000 ug/L
Barium	100-2500 ug/L	Manganese	200-2000 ug/L	Titanium	60-300 ug/L
Beryllium	50-500 ug/L	Molybdenum	60-600 ug/L	Vanadium	50-2000 ug/L
Cadmium	100-1000 ug/L	Nickel	200-2000 ug/L	Zinc	300-2000 ug/L
Chromium	100-1000 ug/L	Selenium	100-1000 ug/L		
Cobalt	100-1000 ug/L	Silver	100-1000 ug/L		

PEI-034
QCI-034

QC Known

Residue

A 500 mL ready-to-use whole volume sample to be analyzed for Total Suspended Solids in the NELAC range of 20-100 mg/L and Total Solids formulated in the NELAC range of 140-800 mg/L.

PEI-079
QCI-079

QC Known

Mercury

A 21 mL concentrate for determination of Mercury. Contains both organic and inorganic Mercury. Formulated in the NELAC range of 3.0-30 ug/L. Each ampule produces 2 liters of sample.

PEI-087
QCI-087

QC Known

pH

A 250 mL whole volume sample to be analyzed for pH without dilution. Formulated in the NELAC range of 5.0-10 units.

PEI-035
QCI-035

QC Known

Hexavalent Chromium

A 10.5 mL concentrate for determination of Hexavalent Chromium. Formulated in the NELAC range of 90-900 ug/L. Each ampule produces 2 liters of sample.

PEI-095
QCI-095

QC Known

DMRQA-39

Nitrite

A 21 mL concentrate for determination of Nitrite. Formulated in the NELAC range of 0.4-4.0 mg/L. Each ampule produces 2 liters of sample.

PEI-100
QCI-100 QC Known

Settleable Solids

A natural solid for quantitative transfer to a 1 liter Class A volumetric flask with dilution to 1 liter in reagent water. Formulated in the NELAC range of 5.0-50 mL/L. Each vial produces 1 liter of sample.

PEI-126
QCI-126 QC Known

Turbidity

A 21 mL concentrate for determination of Turbidity in the NELAC range of 2.0-30 NTU. Formazin based. Each container produces 2 liters of sample.

PEI-092
QCI-092 QC Known

Trace Level Mercury

Sample contains both organic and inorganic Mercury in the range of 20-100 ng/L. Provided as a concentrate for dilution to 1000 mL.

PEO-137
QCO-137 QC Known

Low-Level Total Residual Chlorine

A single sample for determination of Low-Level Total Residual Chlorine in the range of 50-250 ug/L.

PEI-096
QCI-096 QC Known

Full DMRQA Set

Trace Metals	Residue
Mercury	Oil and Grease
Demand	Total Cyanide
Simple Nutrients	pH
Complex Nutrients	Total Phenolics
Total Residual Chlorine	

PEI-082K
QCI-082K QC Known

DMRQA Set 1

Residue
pH
Total Residual Chlorine

PEI-083K
QCI-083K QC Known

DMRQA Set 2

Residue
pH
Demand

PEI-084K
QCI-084K QC Known

DMRQA Set 3

Residue	pH
Demand	Total Residual Chlorine

PEI-085K
QCI-085K QC Known

DMRQA-39 Study Schedule

Study Number	Study Opens	Study Closes
DMRQA-39	TBA	TBA

NOTE: DMRQA-39 study schedule will be posted on the website when announced by the US EPA.

WS Organics Proficiency Testing Studies

Our studies include all analytes required by the NELAC WS fields of testing. Provided in duplicate, each ampule produces at least 2 liters of sample.

WS - Carbamate Pesticides

A 1.5 mL concentrate in Methanol for use with Method 531.1. The sample design will satisfy PT requirements for the following analytes:

Aldicarb	15-100 ug/L
Aldicarb sulfone	15-100 ug/L
Aldicarb sulfoxide	15-80 ug/L
Carbofuran	15-150 ug/L
Methomyl	15-100 ug/L

Baygon	30-140 ug/L
Carbaryl	15-100 ug/L
3-Hydroxy carbofuran	15-80 ug/L
Methiocarb	30-140 ug/L
Oxamyl	15-100 ug/L

PEO-001

QCO-001

QC Known

WS - Chlordane (Total)

A 1.5 mL concentrate in Acetone for use with Methods 505/508/525. Formulated in the NELAC range of 2-20 ug/L.

PEO-005-5

QCO-005-5

QC Known

WS - Toxaphene (Total)

A 1.5 mL concentrate in Acetone for use with Methods 505/508/525. Formulated in the NELAC range of 2-20 ug/L.

PEO-005-6

QCO-005-6

QC Known

WS - Chlorinated Acid Herbicides

A 1.5 mL concentrate in MTBE for determination of Herbicides. The sample design will satisfy PT requirements for the following analytes:

Acifluorfen	10-100 ug/L
Bentazon	10-140 ug/L
Chloramben	20-100 ug/L
2,4-D	10-100 ug/L
2,4-DB	20-120 ug/L
DCPA	20-100 ug/L
Dalapon	10-100 ug/L
2,4,5-TP	10-100 ug/L

Dichloroprop	10-100 ug/L
Dinoseb	7-70 ug/L
Dicamba	20-100 ug/L
3,5-Dichlorobenzoic acid	10-100 ug/L
Pentachlorophenol	1-25 ug/L
Picloram	10-100 ug/L
2,4,5-T	10-100 ug/L

PEO-123

QCO-123

QC Known

WS Organics Proficiency Testing Studies

WS - Organochlorine Pesticides

A 1.5 mL concentrate in Acetone set for use with Methods 505/507/508.

Aldrin	0.2-2.5 ug/L
Dieldrin	0.5-2.5 ug/L
Endrin	0.2-2.5 ug/L
Heptachlor	0.2-2.5 ug/L
Heptachlor epoxide (B)	0.2-2.5 ug/L
Hexachlorobenzene	0.5-5 ug/L

Hexachlorocyclopentadiene	2-20 ug/L
Lindane	0.2-2.5 ug/L
Methoxychlor	2-20 ug/L
Propachlor	1-10 ug/L
Trifluralin	1-10 ug/L

PEO-005-12

QCO-005-12

QC Known

WS - Organonitrogen Pesticides

A 1.5 mL concentrate in Acetone set for use with Methods 505/507/508.

Alachlor	2-20 ug/L
Atrazine	2-20 ug/L
Simazine	2-20 ug/L

PEO-005-3

QCO-005-3

QC Known

WS - Trihalomethanes

A 1.5 mL concentrate in P/T Methanol for use with Methods 501/502/524. Each sample contains:

Bromodichloromethane	5-50 ug/L
Bromoform	5-50 ug/L
Chloroform	5-50 ug/L
Dibromochloromethane	5-50 ug/L
Total Trihalomethanes	20-200 ug/L

PEO-002

QCO-002

QC Known

WS - Regulated SOCs

A 1.5 mL concentrate in Acetone for use with Methods 506/525/550. Each sample includes Benzo(a)pyrene — 0.2-2.5 ug/L, bis(2-Ethylhexyl)phthalate — 5-50 ug/L, bis(2-Ethylhexyl)adipate — 8-50 ug/L, plus a subset of analytes drawn from the following list:

Diethyl phthalate	10-50 ug/L
Butyl benzyl phthalate	10-50 ug/L
Dimethyl phthalate	10-50 ug/L
Di-n-butyl phthalate	10-50 ug/L
Di-n-octyl phthalate	10-50 ug/L
Acenaphthene	1-10 ug/L
Acenaphthylene	1-10 ug/L
Anthracene	1-10 ug/L
Benzo(a)anthracene	1-10 ug/L
Phenanthrene	1-10 ug/L
1-Methylnaphthalene	1-10 ug/L

Benzo(b)fluoranthene	1-10 ug/L
Benzo(k)fluoranthene	1-10 ug/L
Benzo(g,h,i)perylene	1-10 ug/L
Chrysene	1-10 ug/L
Dibenz(a,h)anthracene	1-10 ug/L
Fluoranthene	1-10 ug/L
Fluorene	1-10 ug/L
Indeno(1,2,3-c,d)pyrene	1-10 ug/L
Naphthalene	5-50 ug/L
Pyrene	1-10 ug/L
2-Methylnaphthalene	1-10 ug/L

PEO-006

QCO-006

QC Known

WS Organics Proficiency Testing Studies

WS - Regulated VOCs

A 1.5 mL concentrate in Methanol for use with Methods 502.1/502.2/524.2. Each sample contains:

Benzene	2-20 ug/L	Styrene	2-20 ug/L
Carbon tetrachloride	2-20 ug/L	Tetrachloroethylene	2-20 ug/L
Chlorobenzene	2-20 ug/L	Toluene	2-20 ug/L
1,2-Dichlorobenzene	2-20 ug/L	1,1,1-Trichloroethane	2-20 ug/L
1,4-Dichlorobenzene	2-20 ug/L	1,1,2-Trichloroethane	2-20 ug/L
1,2-Dichloroethane	2-20 ug/L	Trichloroethylene	2-20 ug/L
1,1-Dichloroethylene	2-20 ug/L	1,2,4-Trichlorobenzene	2-20 ug/L
cis-1,2-Dichloroethylene	2-20 ug/L	Vinyl chloride	2-50 ug/L
trans-1,2-Dichloroethylene	2-20 ug/L	Total Xylenes	2-50 ug/L
Dichloromethane	2-20 ug/L	1,2-Dichloropropane	2-20 ug/L
Ethylbenzene	2-20 ug/L		

PEO-007-12

QCO-007-12

QC Known

WS - Unregulated VOCs

A 1.5 mL concentrate in Methanol for use with Methods 502.1/502.2/524.2. Sample includes > 60% of analytes listed.

1,1-Dichloroethane	2-20 ug/L	Dibromomethane	2-20 ug/L
1,1-Dichloropropene	2-20 ug/L	1,3-Dichloropropane	2-20 ug/L
2,2-Dichloropropane	2-20 ug/L	1,1,1,2-Tetrachloroethane	2-20 ug/L
1,2,3-Trichloropropane	2-20 ug/L	1,1,2,2-Tetrachloroethane	2-20 ug/L
1,3-Dichlorobenzene	2-20 ug/L	Bromobenzene	2-20 ug/L
Chloromethane	5-50 ug/L	Bromomethane	5-50 ug/L
Chloroethane	5-50 ug/L	2-Chlorotoluene	2-20 ug/L
4-Chlorotoluene	2-20 ug/L	1,2,4-Trimethylbenzene	2-20 ug/L
n-Propylbenzene	2-20 ug/L	1,2,3-Trichlorobenzene	5-50 ug/L
n-Butylbenzene	2-20 ug/L	Hexachlorobutadiene	5-50 ug/L
4-Isopropyltoluene	2-20 ug/L	1,3,5-Trimethylbenzene	2-20 ug/L
Isopropylbenzene	2-20 ug/L	tert-Butylbenzene	2-20 ug/L
sec-Butylbenzene	2-20 ug/L	Trichlorofluoromethane	5-50 ug/L
Bromochloromethane	2-20 ug/L	Dichlorodifluoromethane	5-50 ug/L
cis-1,3-Dichloropropylene	2-20 ug/L	MTBE	5-50 ug/L
trans-1,3-Dichloropropylene	2-20 ug/L	Naphthalene	5-50 ug/L

PEO-007-3

QCO-007-3

QC Known

WS Organics Proficiency Testing Studies

WS - PCBs

A 1.5 mL concentrate in Acetone for use with Methods 505/508. Report as Decachlorobiphenyl and/or the actual Arochlor. Contains one of the following Arochlors: 1016, 1221, 1232, 1242, 1248, 1254, 1260.

PEO-003
QCO-003 QC Known

WS - EDB/DBCP/TCP

A 1.5 mL concentrate in P/T Methanol for use with Methods 504/551. Each sample contains:

1,2-Dibromo-3-chloropropane	0.100-2.00 ug/L
1,2-Dibromoethane (EDB)	0.050-2.00 ug/L
1,2,3-Trichloropropane	0.200-2.00 ug/L

PEO-007-4
QCO-007-4 QC Known

WS - Diquat/Endothall/Glyphosate/Paraquat

A 5 mL concentrate for determination of:

Diquat	8-40.0 ug/L
Endothall	80-500 ug/L
Glyphosate	375-800 ug/L
Paraquat	8-100 ug/L

PEO-097
QCO-097 QC Known

WS - Organic Disinfection By-Products

A 1.5 mL concentrate in MTBE for determination of:

Bromochloroacetic Acid	5-50 ug/L
Dibromoacetic Acid	5-50 ug/L
Dichloroacetic Acid	5-50 ug/L
Monobromoacetic Acid	5-50 ug/L
Monochloroacetic Acid	10-50 ug/L
Trichloroacetic Acid	5-50 ug/L

PEO-098
QCO-098 QC Known

WS - Chloral Hydrate

A 1.5 mL concentrate in Acetonitrile for determination of Chloral Hydrate. Formulated in the range of 4.00-30.0 ug/L.

PEO-077
QCO-077 QC Known

WS - Pesticides

A 1.5 mL concentrate in Acetone for determination of:

Bromacil	2-20 ug/L
Butachlor	2-20 ug/L
Metribuzin	2-20 ug/L
Metolachlor	2-20 ug/L
Prometon	2-60 ug/L
Cyanazine	2-60 ug/L
Molinate	5-50 ug/L

PEO-099
QCO-099 QC Known

WS - Oxygenates

A 1.5 mL concentrate in PT Methanol for determination of ETBE, TAME, DIPE, Trichlorotrifluoroethane, 1-Phenylpropane, and tert-Butyl alcohol. Formulated in the range of 5-50 ug/L.

PEO-075
QCO-075 QC Known

2019 WS Study Schedule

Study Number	Study Opens	Study Closes
WS-117	Jan. 2	Feb. 15
WS-118	April 16	May 30
WS-119	July 3	Aug. 16
WS-120	Oct. 14	Nov. 27

Dates are subject to change based on regulatory requirements.

WS Organics Proficiency Testing Studies

EPA WS Organics Kit

WS-Carbamate Pesticides
WS-PCBs
WS-Organochlorine Pesticides
WS-Diquat/Endothall/Glyphosate/Paraquat
WS-Chlordane
WS-Regulated SOCs
WS-Unregulated VOCs
WS-Chloral Hydrate

WS-Trihalomethanes
WS-Herbicides
WS-Organonitrogen Pesticides
WS-Organic Disinfection By-Products
WS-Toxaphene
WS-Regulated VOCs
WS-EDB/DBCP/TCP

PEO-010K One-Time Set
Semi-Annually

QCO-010K QC Known
One-Time Set
Semi-Annually

Full WS Organics Kit

WS-Carbamate Pesticides
WS-PCBs
WS-Organochlorine Pesticides
WS-Diquat/Endothall/Glyphosate/Paraquat
WS-Chlordane
WS-Regulated SOCs
WS-Unregulated VOCs
WS-Pesticides
WS-Oxygenates

WS-Trihalomethanes
WS-Herbicides
WS-Organonitrogen Pesticides
WS-Organic Disinfection By-Products
WS-Toxaphene
WS-Regulated VOCs
WS-EDB/DBCP/TCP
WS-Chloral Hydrate

PEO-009K One-Time Set
Semi-Annually

QCO-009K QC Known
One-Time Set
Semi-Annually

WS Inorganics Proficiency Testing Studies

WS - Residual Free Chlorine

A 2.2 mL concentrate for determination of Residual Free Chlorine and Total Residual Chlorine. Formulated in the NELAC range of 0.5-3.0 mg/L. Each ampule produces 2 liters of sample.

PEI-012
QCI-012 QC Known

WS - Cyanide

A 21 mL concentrate for determination of Total Cyanide. Formulated in the NELAC range of 0.1-0.5 mg/L. Each ampule produces 2 liters of sample.

PEI-015
QCI-015 QC Known

WS - TOC/DOC

A 21 mL concentrate to be analyzed for TOC and DOC. Each ampule produces 2 liters of sample.

TOC	1.3-13 mg/L
DOC	1.3-13 mg/L

PEI-013
QCI-013 QC Known

WS - Turbidity

A 21 mL concentrate for determination of Turbidity in the NELAC range of 0.5-8 NTU. Each container produces 2 liters of sample.

PEI-014
QCI-014 QC Known

WS - Trace Metals

A 2 x 21 mL ampule set for determination of the following elements. Each ampule produces 2 liters of sample.

Aluminum	130-1000 ug/L
Antimony	6-50 ug/L
Arsenic	5-50 ug/L
Barium	500-3000 ug/L
Beryllium	2-20 ug/L
Boron	800-2000 ug/L
Cadmium	2-50 ug/L
Chromium	10-200 ug/L
Copper	50-2000 ug/L
Iron	100-1800 ug/L

Lead	5-100 ug/L
Manganese	40-900 ug/L
Molybdenum	15-130 ug/L
Nickel	10-500 ug/L
Selenium	10-100 ug/L
Silver	20-300 ug/L
Thallium	2-10 ug/L
Vanadium	50-1000 ug/L
Zinc	200-2000 ug/L

PEI-016
QCI-016 QC Known

WS - Inorganic Disinfection By-Products

A 2 x 5 mL concentrate set for determination of the following. Each ampule produces 2 liters of sample.

Chlorate	60-180 ug/L
Chlorite	100-1000 ug/L
Bromate	7-50 ug/L
Bromide	50-300 ug/L

PEI-017
QCI-017 QC Known

WS - pH

A 250 mL whole-volume sample for determination of pH without dilution. Formulated in the NELAC range of 5.0-10 units.

PEI-083
QCI-083 QC Known

WS Inorganics Proficiency Testing Studies

WS - Mercury

A 21 mL concentrate for determination of Mercury. Formulated in the NELAC range of 0.5-10 ug/L. Each ampule produces 2 liters of sample.

PEI-088
QCI-088 QC Known

WS - Nitrite

A 21 mL concentrate for determination of Nitrite. Formulated in the NELAC range of 0.4-2.0 mg/L. Each ampule produces 2 liters of sample.

PEI-140
QCI-140 QC Known

WS - Hardness

A 250 mL whole-volume sample for determination of:

Calcium	30-90 mg/L
Magnesium	2.0-20 mg/L
Sodium	12-50 mg/L
Calcium Hardness	75-225 mg/L
Total Hardness	83-307 mg/L

PEI-145
QCI-145 QC Known

WS - Corrosivity

A 500 mL whole-volume sample for determination of Corrosivity. Formulated in the NELAC range of -4 to +4 SI units.

PEI-142
QCI-142 QC Known

WS - Vanadium

A 21 mL concentrate for determination of Vanadium. Formulated in the CA-ELAP range of 5-50 ug/L. Each ampule produces 2 liters of sample.

PEI-144
QCI-144 QC Known

WS - Nitrate

A 21 mL concentrate for determination of Nitrate. Formulated in the range of 3-10 mg/L.

PEI-195
QCI-195 QC Known

WS - MBAs

A 10.5 mL concentrate for determination of LAS as MBAs. Formulated in the NELAC range of 0.1-1.0 mg/L. Each ampule produces 2 liters of sample.

PEI-091
QCI-091 QC Known

WS - Orthophosphate

A 21 mL concentrate for determination of Orthophosphate. Formulated in the NELAC range of 0.5-5.5 mg/L. Each ampule produces 2 liters of sample.

PEI-141
QCI-141 QC Known

WS - Inorganics

A 500 mL whole-volume sample for determination of:

Chloride	20-160 mg/L
Conductivity	130-1300 umhos/cm
Fluoride	1-8 mg/L
Nitrate as N	3-10 mg/L
Nitrate/Nitrite-N	3-10 mg/L
Potassium	10-40 mg/L
Sulfate	25-250 mg/L
Total Dissolved Solids	100-1000 mg/L
Alkalinity	25-200 mg/L

PEI-041
QCI-041 QC Known

WS - Uranium

A 21 mL concentrate for determination of Uranium. Formulated in the range of 3-104 ug/L.

PEI-143
QCI-143 QC Known

WS - Fluoride

A 125 mL whole volume sample for determination of Fluoride. Formulated in the NELAC range of 1-8 mg/L.

PEI-193
QCI-193 QC Known

WS Inorganics Proficiency Testing Studies

WS - Silica

A 21 mL concentrate for dilution to 1 liter for determination of Silica. Formulated in the NELAC range of 5.0-75 mg/L. Each vial produces 2 liters of sample.

PEI-073
QCI-073 QC Known

WS - UV254 Absorbance

A 21 mL concentrate for determination of UV254 absorbance. Formulated in the NELAC range of 0.05-0.7 cm₍₋₁₎.

PEI-085
QCI-085 QC Known

WS - Hexavalent Chromium

A 10.5 mL concentrate to be diluted to 1 liter and analyzed for Cr(VI) at drinking water levels. Formulated in the NELAC range of 5.0-50 ug/L. Each ampule produces 2 liters of sample.

PEI-128
QCI-128 QC Known

WS – Perchlorate – Whole Volume

A 500 mL whole volume sample for determination of Perchlorate in an aqueous mixed common anion matrix with conductivity at 500 umhos/cm. Formulated in the range of 4.0-20 ug/L.

PEI-194
QCI-194 QC Known

Study Number	Study Opens	Study Closes
WS-117	Jan. 2	Feb. 15
WS-118	April 16	May 30
WS-119	July 3	Aug. 16
WS-120	Oct. 14	Nov. 27

Dates are subject to change based on regulatory requirements.

WS - Perchlorate

A 5.0 mL concentrate for determination of Perchlorate. Formulated in the NELAC range of 4.0-20 ug/L. Each ampule produces 2 liters of sample.

PEI-108
QCI-108 QC Known

WS - Color

A 100 mL whole-volume sample for determination of Color. Formulated in the range of 1-25 CU.

PEI-131
QCI-131 QC Known

Full NELAC WS Inorganics Kit

Inorganic Disinfection By-Products	Corrosivity
Hardness	Turbidity
Inorganics	Nitrite
TOC/DOC	Silica
pH	Hexavalent Chromium
Cyanide	MBAs
Trace Metals	UV254 Absorbance
Residual Free Chlorine	Perchlorate
Mercury	Orthophosphate

PEI-018K One-Time Set
Semi-Annually

QCI-019K QC Known
One-Time Set
Semi-Annually

EPA WS Inorganics Kit

Inorganics	Trace Metals
Turbidity	Residual Free Chlorine
Hardness	Mercury
TOC/DOC	Orthophosphate
pH	Inorganic Disinfection By-Products
Cyanide	Nitrite

PEI-020K One-Time Set
Semi-Annually

QCI-018K QC Known
One-Time Set
Semi-Annually

An NSI Lab Solutions Exclusive!

All Quantitative Micro PT Samples are Supplied in Duplicate.

WS Microbiological Proficiency Testing

WS - Microbiological PT

A ten standard set for determination of Total/Fecal Coliforms and E. coli. The standards are designed to be compatible with all promulgated methods including MF, MTF, IDEXX Quanti-Tray®, Colilert®, and Colisure®. With this set, you can report presence/absence and quantitative* results. All samples are cultured in the range of 20-200 CFU. Sterile hydration buffer included.

MIC-001
MIC-QC4 QC Known

*Please note you can only report quantitative results quarterly (MS-180, MS-183, MS-186, and MS-189).

WS - Standard Plate Count

One stabilized pellet containing a heterotrophic bacteria. Sterile hydration buffer included.

MIC-002
MIC-QC3 QC Known

WS - Quantitative Coliforms

One stabilized pellet in the range of 20-200 CFU per 100 mL designed for LT2 Enhanced Surface Water Treatment Rule. Evaluated for E. coli, Fecal Coliform, and Total Coliform. Applicable for all SDWA quantitative methods. Sterile hydration buffer included.

MIC-006
MIC-QC6 QC Known

WS – Microbiological PT-Enterococci

The PT set includes 10 samples and 10 vials of sterile hydration buffer. This set will satisfy the requirements for the detection of Enterococci.

MIC-007
MIC-QC13 QC Known

NOTE: Overnight shipping and HAZMAT fees apply to each order and are prepaid and added to your invoice. All microbiological samples are shipped in a cold pack to maintain integrity. Store in freezer.

WS - Quantitative Enterococcus

Designed for use with all MPN and MF procedures. Sample supplied as a dehydrated pellet in the range of 20-1000 CFU/MPN per 100 mL. Sterile hydration buffer included. Store in freezer.

MIC-009
MIC-QC14 QC Known

Study Number	Study Opens	Study Closes
MS-180	Jan. 2	Jan. 31
MS-181*	Feb. 5	March 6
MS-182*	March 4	April 2
MS-183	April 2	May 1
MS-184*	May 1	May 30
MS-185*	June 4	July 3
MS-186	July 2	July 31
MS-187*	Aug. 5	Sept. 3
MS-188*	Sept. 3	Oct. 2
MS-189	Oct. 1	Oct. 30
MS-190*	Nov. 4	Dec. 3
MS-191*	Dec. 4	Jan. 2, 2020

*MIC-002, MIC-006 & MIC-007 are not available in these studies.

Dates are subject to change based on regulatory requirements.

Quanti-Tray®, Colilert®, and Colisure® are registered trademarks of IDEXX Laboratories, Inc.

Certified Reference Materials for Microbiological Analysis of Water and Wastewater ISO Guide 17034 Accredited

Product Listings

Except where noted, standards are formulated at 1000-2000 CFU. Actual certified values are listed on an accompanying COA.

Single Organisms - High Level	10 Vials Catalog#	20 Vials Catalog#
P. aeruginosa (NCTC 12951)	10662-10	10662-20X
E. aerogenes (NCTC 10006)	10006-10	10006-20X
E. coli (NCTC 9001)	9001-10	9001-20X
Klebsiella spp (NCTC 8167)	8167-10	8167-20X
E. faecalis (NCTC 775) - High (1000-1500)	775H-10	775H-20X
HPC Control* (5-500)	HPCQC-10	HPCQC-20X

*Certified for HPC by Pour Plate and SimPlate®

Except where noted, standards are formulated at < 200 CFU. Actual certified values are listed on an accompanying COA.

Single Organisms - Low Level	10 Vials Catalog#	20 Vials Catalog#
P. aeruginosa (NCTC 12951)	10662L-10	10662L-20X
E. aerogenes (NCTC 10006)	10006L-10	10006L-20X
E. coli (NCTC 9001)	9001L-10	9001L-20X
Klebsiella spp (NCTC 8167)	8167L-10	8167L-20X
E. faecalis (NCTC 775)	775L-10	775L-20X
S.bovis (NCTC 8177)	8177L-10	8177L-20X

Coliform QC Check Kit

4 Each of E. coli, E.aerogenes and P. aeruginosa (1000-2000 CFU of each).

COL-QCK 12 vials

Fecal Coliform in Sludge QC

A pack of 5 individual 1 gram vials of lyophilized sludge with fecal coliform set at 10E3 to 10E6 mpn/g.

MIC-SLUDGES-5

Colilert®, Quanti-Tray®, Colilert-18®, and SimPlate® are registered trademarks of IDEXX Laboratories, Inc.

Universal Water Microbe Cocktail

QC all of your water microbiology assays with just a single flash dissolve lyophilized pellet. Each pellet can be used to QC the following microbiology analyses at the approximate levels shown after hydration to 100mL:

Total Coliform	~2400CFU/100mL
E.coli	~1000CFU/100mL
Fecal Coliform	~500CFU/100mL
P.aeruginosa	~1000CFU/100mL
Enterococci	~1000CFU/100mL
HPC	~50CFU/100mL

Source organisms are no more than two passages from primary NCTC cultures. To use, dissolve a single pellet into 100mL of sterile DI water. Applicable for use with MTF, IDEXX and Plate Count methods

MIC-UNV-10 10 pellets
MIC-UNV-20 20 pellets

UST Proficiency Testing Program

Meet your requirements of State Accreditation for UST analysis.

PVOC in Water

A single blind sample for dilution in water with analysis for Benzene, Toluene, Ethylbenzene, m+p-Xylene, o-Xylene, MTBE, Naphthalene, and Total Xylenes.

PE-113
QC-113 QC Known

Gasoline in Water

A single blind sample for dilution in water with analysis for Gasoline Range Organics by Purge and Trap, Modified 8015, and NWTPH-Gx Methods in the range of 400-4000 ug/L.

PE-114
QC-114 QC Known

Diesel in Water

A single blind sample for dilution in water with analysis for Diesel by Modified 8015 and NWTPH-Dx Methods in the range of 800-6000 ug/L.

PE-115
QC-115 QC Known

TPH in Water

A single sample concentrate for analysis of TPH in water by IR or Gravimetric Methods.

PE-116
QC-116 QC Known

VPH in Water

A single sample concentrate for analysis of various VPH ranges and selected gasoline components. Please specify the state when ordering. Designed for Washington, Massachusetts, and North Carolina specific hydrocarbon methods.

PE-117
QC-117 QC Known

EPH in Water

A single sample concentrate for analysis of various EPH ranges and selected diesel components. Please specify the state when ordering. Designed for Washington, Massachusetts, and North Carolina specific hydrocarbon methods.

PE-118
QC-118 QC Known

Texas TPH in Water

A two sample (high and low range) concentrate set for analysis of TPH by TNRCC 1005.

TX-1005WPT
TX-1005WQC QC Known

UST Proficiency Testing Program

PVOC in Soil

Sample includes a 15 gram clean soil matrix and concentrate in Methanol containing the BTEX analytes plus MTBE and Naphthalene.

SPE-113
SQC-113 QC Known

Gasoline in Soil

Supplied as a 15 gram blank soil and a 2 mL ampule containing GRO spike in Methanol. Applicable to Purge and Trap and Methanol Extraction Techniques in the range of 100-2000 mg/kg.

SPE-114
SQC-114 QC Known

Diesel in Soil

Supplied as two 20 gram samples for analysis of Diesel Range Organics in the range of 300-3000 mg/kg.

SPE-115
SQC-115 QC Known

TPH in Soil

A 50 gram fortified soil sample for determination of TPH by IR or Gravimetric Methods.

SPE-116
SQC-116 QC Known

VPH in Soil

Supplied as 15 grams of clean blank soil and 2 mL unleaded gasoline containing VPH analytes of interest in Methanol. Designed for use with Massachusetts, North Carolina, and Washington specific hydrocarbon methods.

SPE-117
SQC-117 QC Known

EPH in Soil

Supplied as two 20 gram samples for analysis of EPH by Massachusetts, North Carolina, and Washington specific hydrocarbon methods.

SPE-118
SQC-118 QC Known

Texas TPH in Soil

A two sample (high and low range) set for analysis of TPH by TNRCC 1005.

TX-1005SPT
TX-1005SQC QC Known

2019 UST Study Schedule

Study Number	Study Opens	Study Closes
UST-095	Feb. 5	March 21
UST-096	April 10	May 24
UST-097	Aug. 20	Oct. 3
UST-098	Oct. 22	Dec. 5

Dates are subject to change based on regulatory requirements.

Soil/Hazardous Waste Proficiency Testing

Metals in Soil

A 40 gram sample supplied ready to use. Applicable to all ICP & AA — SW-846 and CLP Methods. Contains all of the metals listed below in the NELAC required range.

Aluminum	Antimony	Arsenic	Barium
Beryllium	Boron	Cadmium	Calcium
Chromium	Cobalt	Copper	Iron
Lead	Magnesium	Manganese	Mercury
Molybdenum	Nickel	Potassium	Selenium
Silver	Sodium	Strontium	Thallium
Titanium	Tin	Vanadium	Zinc

Concentrations of each element comply with NELAC standards. Use for ICP, AA, RCRA, and CLP Methods.

SPEI-001
SQCI-001

QC Known

Hexavalent Chromium

A 40 gram sample applicable to all Cr(VI) Methods. Contains Hexavalent Chromium within the NELAC required range.

SPEI-003
SQCI-003

QC Known

TCLP Metals in Soil

Supplied as a 100 gram blank soil and a 21 mL spiking solution. Contains a subset of the metals listed below.

Antimony - 0.2-20 mg/L	Lead - 0.5-150 mg/L
Arsenic - 0.5-40 mg/L	Mercury - 0.05-10 mg/L
Barium - 0.5-500 mg/L	Selenium - 0.5-10 mg/L
Beryllium - 0.1-5 mg/L	Silver - 0.2-40 mg/L
Cadmium - 0.5-50 mg/L	Zinc - 0.5-30 mg/L
Chromium - 0.5-50 mg/L	

SPEI-005
SQCI-005

QC Known

Flash Point

A 110 mL sample for Ignitability in the NELAC range of 100-200°F. Ground Shipping Only.

SPEI-014
SQCI-014

QC Known

Anions in Soil

A 40 gram sample designed for the DI water extraction procedure followed by analyses for all anions listed below. Formulated in the NELAC required range where applicable.

Bromide	Nitrate as N
Chloride	Sulfate
Fluoride	Orthophosphate as P
Nitrite as N	Nitrate/Nitrite-N

SPEI-015
SQCI-015

QC Known

Cyanide in Soil

Supplied as a 50 gram matrix blank and a 5 mL spiking solution for the determination of Total Cyanide.

SPEI-017
SQCI-017

QC Known

Reactive Cyanide

Supplied as a 50 gram matrix blank and a 5 mL spiking solution for determination of Reactive Cyanide.

SPEI-013
SQCI-013

QC Known

Soil/Hazardous Waste Proficiency Testing

Nutrients in Soil

Supplied as a 40 gram sample for determination of Nutrients listed below in the NELAC required range.

Ammonia as N	300-3000 mg/kg
Total Kjeldahl-Nitrogen	400-4000 mg/kg
Total Organic Carbon	1000-15000 mg/kg
Total Phosphorus	300-3000 mg/kg

SPEO-019
SQCO-019 QC Known

Chlordane in Soil

A 30 gram sample supplied ready to use. Designed for use with EPA Method 8081. Contains Technical Chlordane in the NELAC required range. Supplied in duplicate.

SPEO-009
SQCO-009 QC Known

Corrosivity

A 40 gram soil sample for determination of Corrosivity/pH in the range of 2-12 su.

SPEI-012
SQCI-012 QC Known

Oil and Grease in Soil

Supplied as a 50 gram sample for determination of n-Hexane extractable material at 300-3000 mg/kg.

SPEI-037
SQCI-037 QC Known

Toxaphene in Soil

A 30 gram sample supplied ready to use. Designed for use by EPA Method 8081. Formulated in the NELAC required range. Supplied in duplicate.

SPEO-004
SQCO-004 QC Known

PCB in Soil

A 30 gram sample supplied ready to use. Designed for use by EPA Method 8081. Contains one Arochlor per study. Formulated in the NELAC required range. Supplied in duplicate.

SPEO-005
SQCO-005 QC Known

Soil/Hazardous Waste Proficiency Testing

Organochlorine Pesticides

A 30 gram sample supplied ready to use. Each study contains at least 80% of the NELAC analytes in the required range. Designed for use by EPA Method 8081. Supplied in duplicate.

Aldrin	Endosulfan II
alpha-BHC	Endosulfan sulfate
beta-BHC	Endrin
gamma-BHC	Endrin aldehyde
delta-BHC	Heptachlor
4,4'-DDD	Heptachlor epoxide (B)
4,4'-DDE	Methoxychlor
4,4'-DDT	alpha-Chlordane
Dieldrin	gamma-Chlordane
Endosulfan I	Endrin ketone
Hexachlorobenzene	Propachlor
Hexachlorocyclopentadiene	Trifluralin

SPEO-003

SQCO-003

QC Known

Acid Herbicides in Soil

A 30 gram sample supplied ready to use. Designed for use by EPA Method 8151. Contains all NELAC analytes plus a subset of the other analytes listed below. Supplied in duplicate.

Dicamba (NELAC)	DCPA
Picloram	2,4-D (NELAC)
Dinoseb (NELAC)	Dichloroprop
MCPA	MCPP
2,4,5-T (NELAC)	4-Nitrophenol
Acifluorfen	Dalapon
2,4,5-TP (NELAC)	Chloramben
Bentazon	2,4-DB (NELAC)
Pentachlorophenol (NELAC)	3,5-Dichlorobenzoic acid

SPEO-006

SQCO-006

QC Known

Soil/Hazardous Waste Proficiency Testing

Semivolatiles in Soil

A 30 gram sample supplied ready to use. Designed for use by EPA Method 8270. Each study contains at least 60% of the NELAC analytes plus a subset of the other analytes listed below. Supplied in duplicate.

1,1-Biphenyl	3,3-Dimethylbenzidine	bis(2-Ethylhexyl)phthalate	Methyl parathion
1,2,4,5-Tetrachlorobenzene	3,3'-Dichlorobenzidine	Butyl benzyl phthalate	n-Decane
1,2,4-Trichlorobenzene	3-Methylcholanthrene	Caprolactam	N-Nitroso-di-n-butylamine
1,2-Dichlorobenzene	3-Methylphenol	Carbazole	N-Nitrosodi-n-propylamine
1,3,5-Trinitrobenzene	3-Nitroaniline	Chlorobenzilate	N-Nitrosodiethylamine
1,3-Dichlorobenzene	3-Nitrophenol	Chrysene	N-Nitrosodimethylamine
1,3-Dinitrobenzene	4-Aminobiphenyl	Di-n-butyl phthalate	N-Nitrosodiphenylamine
1,4-Dichlorobenzene	4-Bromophenyl phenyl ether	Di-n-octyl phthalate	N-Nitrosomethylethylamine
1,4-Naphthoquinone	4-Chloro-3-methylphenol	Diallate	N-Nitrosomorpholine
1-Chloronaphthalene	4-Chloroaniline	Dibenz(a,h)anthracene	N-Nitrosopiperidine
1-Naphthylamine	4-Chlorophenyl phenyl ether	Dibenzofuran	N-Nitrosopyrrolidine
2,2-Oxybis(1-chloropropane)	4-Methylphenol	Diethyl phthalate	n-Octadecane
2,3,4,5-Tetrachlorophenol	4-Nitroaniline	Dimethoate	Naphthalene-d8
2,3,4,6-Tetrachlorophenol	4-Nitrophenol	Dimethyl phthalate	Naphthalene
2,3,5,6-Tetrachlorophenol	4-Nitroquinoline-1-oxide	Dinoseb	Nitrobenzene
2,3-Dichloroaniline	5-Nitro-o-toluidine	Diphenyl ether	o,o,o-Triethylphosphorothioate
2,4,5-Trichlorophenol	7,12-Dimethylbenz(a)anthracene	Diphenylamine	o-Dinitrobenzene
2,4,6-Trichlorophenol	a,a-Dimethylphenylamine	Disulfoton	o-Toluidine
2,4-Dichlorophenol	Acenaphthene	Ethyl ethanesulfonate	p-Dimethylaminoazobenzene
2,4-Dimethylphenol	Acenaphthylene	Famphur	p-Dinitrobenzene
2,4-Dinitrophenol	Acetophenone	Fluoranthene	p-Phenylenediamine
2,4-Dinitrotoluene	Aniline	Fluorene	Parathion
2,6-Dichlorophenol	Anthracene	Hexachlorobenzene	Pentachlorobenzene
2,6-Dinitrotoluene	Atrazine	Hexachlorobutadiene	Pentachlorohexane
2-Acetylaminofluorene	Benzaldehyde	Hexachlorocyclopentadiene	Pentachloronitrobenzene
2-Amino-1-methylbenzene	Benzidine	Hexachloroethane	Pentachlorophenol
2-Chloronaphthalene	Benzo(a)anthracene	Hexachlorophene	Phenacetin
2-Chlorophenol	Benzo(a)pyrene	Hexachloropropene	Phenanthrene
2-Cyclohexyl-4,6-dinitrophenol	Benzo(b)fluoranthene	Indeno(1,2,3-c,d)pyrene	Phenol
2-Methylcholanthrene	Benzo(g,h,i)perylene	Isodrin	Phorate
2-Methylnaphthalene	Benzo(k)fluoranthene	Isophorone	Pronamide
2-Methylphenol	Benzoic acid	Isosafrole	Pyrene
2-Naphthylamine	Benzyl alcohol	Kepone	Pyridine
2-Nitroaniline	bis(2-Chloroethoxy)methane	m-Dinitrobenzene	Safrole
2-Nitrophenol	bis(2-Chloroethyl)ether	Methapyrilene	Sulfotepp
2-Picoline	2,2'-Oxybis(1-Chloropropane)	Methyl methanesulfonate	Thionazin

SPEO-007
SQCO-007

QC Known

Supplied as a 2 mL ampule concentrate and a 15 gram matrix blank. To use, spike the concentrate onto the matrix blank prior to analysis. Designed for use by EPA Methods 8021 or 8260. Each study contains at least 60% of the NELAC analytes plus a subset of the other analytes listed below.

1-Chlorohexane	Acrolein	Isopropylbenzene
1,1-Dichloroethane	Acrylonitrile	Methacrylonitrile
1,1-Dichloroethene	Allyl chloride	Methyl acetate
1,1-Dichloropropene	Benzene	Methyl cyclohexane
1,1,1-Trichloroethane	Bromobenzene	Methyl methacrylate
1,1,1,2-Tetrachloroethane	Bromochloromethane	Methylene chloride
1,1,2-Trichloro-1,2,2-trifluoroethane	Bromodichloromethane	MTBE
1,1,2-Trichloroethane	Bromoform	n-Butylbenzene
1,1,2,2-Tetrachloroethane	Bromomethane	n-Propylbenzene
1,2-Dibromo-3-chloropropane	Carbon disulfide	Naphthalene
1,2-Dibromoethane	Carbon tetrachloride	p-Isopropyltoluene
1,2-Dichlorobenzene	Chlorobenzene	Pentachloroethane
1,2-Dichloroethane	Chlorodibromomethane	Propionitrile
1,2-Dichloropropane	Chloroethane	sec-Butylbenzene
1,2,3-Trichloropropane	Chloroform	Styrene
1,2,4-Trichlorobenzene	Chloromethane	t-Amyl alcohol
1,2,4-Trimethylbenzene	Chloroprene	t-Amylmethylether (TAME)
1,3-Dichlorobenzene	Cyclohexanone	t-Butyl alcohol
1,3-Dichloropropane	cis-1,2-Dichloroethene	tert-Butylbenzene
1,3,5-Trichlorobenzene	cis-1,3-Dichloropropene	Tetrachloroethene
1,3,5-Trimethylbenzene	cis-1,4-Dichloro-2-butene	Tetrahydrofuran
1,4-Dichlorobenzene	Dibromomethane	Toluene
1,4-Dioxane	Dichlorodifluoromethane	Total Xylenes
2-Butanone	Diethyl ether	trans-1,2-Dichloroethene
2-Chloroethyl vinyl ether	Diisopropylether (DIPE)	trans-1,3-Dichloropropene
2-Chlorotoluene	Ethanol	trans-1,4-Dichloro-2-butene
2-Hexanone	Ethyl methacrylate	Trichloroethene
2,2-Dichloropropane	Ethyl-tert-butyl ether	Trichlorofluoromethane
3,3-Dimethyl-1-butanol	Ethylbenzene	Trichlorotrifluoroethane
4-Chlorotoluene	Hexachlorobutadiene	Vinyl acetate
4-Methyl-2-pentanone	Hexachloroethane	Vinyl chloride
Acetone	Iodomethane	
Acetonitrile	Isobutyl alcohol	

QC Known

Soil/Hazardous Waste Proficiency Testing

VOCs in Soil – Mid Level

Supplied as a 10 gram sample in 10 mL of Methanol. Ready to analyze as received. Each study contains at least 60% of the NELAC analytes in the NELAC required range plus a subset of the other analytes listed below.

1-Chlorohexane	Acrolein	Isopropylbenzene
1,1-Dichloroethane	Acrylonitrile	Methacrylonitrile
1,1-Dichloroethene	Allyl chloride	Methyl acetate
1,1-Dichloropropene	Benzene	Methyl cyclohexane
1,1,1-Trichloroethane	Bromobenzene	Methyl methacrylate
1,1,1,2-Tetrachloroethane	Bromochloromethane	Methylene chloride
1,1,2-Trichloro-1,2,2-trifluoroethane	Bromodichloromethane	MTBE
1,1,2-Trichloroethane	Bromoform	n-Butylbenzene
1,1,2,2-Tetrachloroethane	Bromomethane	n-Propylbenzene
1,2-Dibromo-3-chloropropane	Carbon disulfide	Naphthalene
1,2-Dibromoethane	Carbon tetrachloride	p-Isopropyltoluene
1,2-Dichlorobenzene	Chlorobenzene	Pentachloroethane
1,2-Dichloroethane	Chlorodibromomethane	Propionitrile
1,2-Dichloropropane	Chloroethane	sec-Butylbenzene
1,2,3-Trichloropropane	Chloroform	Styrene
1,2,4-Trichlorobenzene	Chloromethane	t-Amyl alcohol
1,2,4-Trimethylbenzene	Chloroprene	t-Amylmethylether (TAME)
1,3-Dichlorobenzene	Cyclohexanone	t-Butyl alcohol
1,3-Dichloropropane	cis-1,2-Dichloroethene	tert-Butylbenzene
1,3,5-Trichlorobenzene	cis-1,3-Dichloropropene	Tetrachloroethene
1,3,5-Trimethylbenzene	cis-1,4-Dichloro-2-butene	Tetrahydrofuran
1,4-Dichlorobenzene	Dibromomethane	Toluene
1,4-Dioxane	Dichlorodifluoromethane	Total Xylenes
2-Butanone	Diethyl ether	trans-1,2-Dichloroethene
2-Chloroethyl vinyl ether	Diisopropylether (DIPE)	trans-1,3-Dichloropropene
2-Chlorotoluene	Ethanol	trans-1,4-Dichloro-2-butene
2-Hexanone	Ethyl methacrylate	Trichloroethene
2,2-Dichloropropane	Ethyl-tert-butyl ether	Trichlorofluoromethane
3,3-Dimethyl-1-butanol	Ethylbenzene	Trichlorotrifluoroethane
4-Chlorotoluene	Hexachlorobutadiene	Vinyl acetate
4-Methyl-2-pentanone	Hexachloroethane	Vinyl chloride
Acetone	Iodomethane	
Acetonitrile	Isobutyl alcohol	

SPEO-008H
SQCO-008H

QC Known

Soil/Hazardous Waste Proficiency Testing

Nitroaromatics

A 10 gram sample supplied ready to use. Each study contains at least 80% of the analytes listed below in the required range. Supplied in duplicate.

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
Nitroguanidine	3,5-Dinitroaniline

SPEI-011
SQCI-011 QC Known

Low Level PAHs in Soil

A 30 gram sample supplied ready to use. Each study contains all analytes listed below in the NELAC required range. Supplied in duplicate.

Acenaphthene	Chrysene
Acenaphthylene	Dibenzo(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(b)fluoranthene	Indeno(1,2,3-c,d)pyrene
Benzo(k)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(a)pyrene	Pyrene
1-Methylnaphthalene	2-Methylnaphthalene

SPEI-016
SQCI-016 QC Known

Soil/Hazardous Waste Proficiency Testing

Organophosphorus Pesticides

A 30 gram sample supplied ready to use. All are formulated in the range of 100-1000 ug/kg. Supplied in duplicate.

Azinophos methyl (Guthion)	Malathion	Chlorpyrifos
Naled	Demeton-s	Parathion, ethyl
Diazinon	Parathion, methyl	Dichlorvos (DDVP)
Phorate	Disulfoton	Ronnel
EPN	Stirophos	Ethoprop
Sulfotepp	Famphur	TEPP
Fenthion	Demeton-o	Chlorfenvinphos
Trichlorfon		

SPEO-021

SQCO-021

QC Known

TCLP Base/Neutrals

Supplied as a 100 gram blank soil and a 21 mL spiking solution. Each sample contains a subset of each analyte class at concentrations exceeding regulatory levels.

1,4-Dichlorobenzene	2-Methylphenol
Hexachlorobutadiene	4-Methylphenol
Hexachloroethane	3+4-Methylphenol
Nitrobenzene	Total Cresol
Pyridine	Pentachlorophenol
2,4-Dinitrotoluene	2,4,5-Trichlorophenol
Hexachlorobenzene	2,4,6-Trichlorophenol

SPEO-015-BN

SQCO-015-BN

QC Known

TCLP Herbicides

Supplied as a 100 gram blank soil and a 21 mL spiking solution. Each sample contains each analyte at concentrations exceeding regulatory levels.

Silvex (2,4,5-TP)
2,4-D

SPEO-015-HERB

SQCO-015-HERB

QC Known

TCLP Pesticides

Supplied as a 100 gram blank soil and a 21 mL spiking solution. Each sample contains a subset of each analyte class at concentrations exceeding regulatory levels.

gamma-BHC (Lindane)
Chlordane, total
Endrin
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

SPEO-015-PEST

SQCO-015-PEST

QC Known

Soil/Hazardous Waste Proficiency Testing

TOX in Soil

A 100 gram sample supplied ready to use. Designed for use with EPA Methods 9020B, 9065, 9066, and 9067. Contains Total Phenolics and TOX in the range of 0.5-100 mg/kg.

SPEO-038
SQCO-038 QC Known

PCBs in Transformer Oil

A 1.5 gram concentrate for determination of PCBs in Transformer Oil.

SPEO-072
SQCO-072 QC Known

Perchlorate in Soil

Supplied as a 40 gram sample for determination of Perchlorate in the range of 200-2000 mg/kg.

SPEI-141
SQCI-141 QC Known

Sulfide in Soil

Supplied as a fortifying spike and a blank soil to be analyzed for Sulfide.

SPEI-018
SQCI-018 QC Known

TPH in Soil

Supplied as a 50 gram sample for determination of non-polar extractable material (TPH) in the range of 300-3000 mg/kg.

SPEI-140
SQCI-140 QC Known

2019 Soil Study Schedule

Study Number	Study Opens	Study Closes
SM-120	Feb. 5	March 21
SM-121	April 10	May 24
SM-122	Aug. 20	Oct. 3
SM-123	Oct. 22	Dec. 6

Dates are subject to change based on regulatory requirements.

Full NELAC Set

Semivolatiles	Pesticides
Chlordane	Hexavalent Chromium
Corrosivity	Cyanide
Flash Point	Acid Herbicides
PCBs	Trace Metals
Toxaphene	Low Level PAHs
Anions	Nitroaromatics
Nutrients	VOCs in Soil - Mid Level
Organophosphorus Pesticides	VOCs in Soil - Low Level

SPEO-015K
SQCO-015K QC Known

PT Express

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When one size doesn't fit all...

Let's face it. The NELAC analyte list and concentration ranges are pretty narrow. So, if you need something you can't find in our catalog, call us and we'll work with you to design a solution.

Custom formulation represents a significant part of our business. We do it very well, and we do it very fast. We always quote your requests within 24 hours, and depending on the complexity of the

project, turnaround times can be less than 48 hours. Using the same expert craftsmanship and attention to detail used in manufacturing our line of stock products, we will draw on our inventory of over 2000 chemicals to formulate a product just for you. To request a quote, call us at 1-800-234-7837 or fill out the form on page 42 and fax it to 919-789-3019.

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NSI Lab Solutions
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Raleigh, NC 27617

Phone: 800-234-7837

Fax: (919) 789-3019

E-Mail: nsi@nsilabsolutions.com

Package Options:

Screw Cap Bottles:

Glass HPDE (Circle One)

☐ 10 mL ☐ 250 mL
☐ 25 mL ☐ 500 mL
☐ 100 mL ☐ 1000 mL
☐ 4L

Ampules:

☐ 2 mL ☐ 10 mL
☐ 5 mL ☐ 20 mL

From: Name: _____
Company: _____
Address: _____

Phone: _____
Email: _____
Fax: _____
Page _____ of _____

No. of Analytes _____

Product Description _____

Concentration _____ Required Number of Units _____

Solvent/Matrix _____ Requested Delivery Date _____

Analyte	CAS No. (optional)	Concentration (if varied)
1. _____		
2. _____		
3. _____		
4. _____		
5. _____		
6. _____		
7. _____		
8. _____		
9. _____		
10. _____		
11. _____		
12. _____		
13. _____		
14. _____		
15. _____		

Concentration Units:

☐ ng/mL ☐ ug/kg
☐ ug/mL ☐ mg/kg
☐ mg/mL
☐ mg/L
☐ wt. %
☐ vol. %

Validation/Documentation
Required:

Gravimetric (Level 1)

Analytical (Level 2)

Other

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for future requests.

(Please, one solution per request form.
Copy this form for multiple custom solutions.)

DMRQA-39 Order Form

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☐ Contract Lab ☐ Permittee
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Complete Order Section (All PT Samples Are Supplied in Duplicate)

NSI Lab Solutions Standard	DMRQA			QC Standards			Total Price
	Catalog #	Price	Qty.	Catalog #	Price	Qty.	
Trace Metals	PEI-034			QCI-034			
Nitrite as N	PEI-100			QCI-100			
Settleable Solids	PEI-126			QCI-126			
Turbidity	PEI-092			QCI-092			
Hexavalent Chromium	PEI-095			QCI-095			
Mercury	PEI-087			QCI-087			
Demand — BOD, CBOD, COD, TOC	PEI-026			QCI-026			
Simple Nutrients — NO3 as N, NH3 as N, Ortho-PO4	PEI-138			QCI-138			
Complex Nutrients — TKN, Total Phosphorus	PEI-139			QCI-139			
Total Cyanide	PEI-031			QCI-031			
Residue TSS and Total Solids	PEI-079			QCI-079			
Oil and Grease	PEI-029			QCI-029			
Total Residual Chlorine	PEI-033			QCI-033			
pH	PEI-035			QCI-035			
Total Phenolics	PEI-032			QCI-032			
Minerals — K, Cl, F, Na, SO4, TDS, Conductivity, Alkalinity	PEI-136			QCI-136			
Hardness — Ca, Mg, Ca Hardness, Total Hardness	PEI-137			QCI-137			
Trace Level Mercury	PEO-137			QCO-137			
Low Level Total Residual Chlorine	PEI-096			QCI-096			
DMRQA Set	PEI-082K			QCI-082K			
Not including Nitrite as N, Minerals, Hardness, Trace Level Mercury, Low Level Total Residual Chlorine, Hexavalent Chromium, Turbidity, Settleable Solids, & Total/Fecal Coliform.							
DMRQA Set 1 — Residue, pH, & Total Residual Chlorine	PEI-083K			QCI-083K			
DMRQA Set 2 — Residue, pH, & Demand	PEI-084K			QCI-084K			
DMRQA Set 3 — Residue, pH, Demand, & Total Residual Chlorine	PEI-085K			QCI-085K			
Coliforms /E.coli Supplied in Duplicate / Overnight shipping only	MIC-003			MIC-QC2			

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