

NELAC PT for Accreditation								
Fields of Proficiency Testing with PTRLs								
Non-Potable Water (NPW)								
Effective October 3, 2011								
			Red = Previous Experimental Analytes/Footnotes		Blue = New Analyte/Footnote		Magenta = Changes	
Matrix	EPA	NELAC	Analyte ^{1,2}	Conc Range	Acceptance Criteria ^{3,4,5,6}			NELAC PTRL ⁷
	Analyte Code	Analyte Code			a	b	c	d
			Microbiology	CFU/100 mL				CFU/100 mL
NPW	0233	2500	Total Coliform, MF ⁸	20 to 2400	Log transform; ±3 SD			2
NPW	0235	2530	Fecal Coliform, MF ⁸	20 to 2400	Log transform; ±3 SD			2
NPW		2525	E.coli, MF ⁸	20 to 2400	Log transform; ±3 SD			2
NPW		2520	Enterococci, MF ⁸	20 to 1000	Log transform; ±3 SD			2
				MPN/100 mL				MPN/100 mL
NPW	0234	2500	Total Coliform, MPN ⁹	20 to 2400	Log transform; ±3 SD			2
NPW	0236	2530	Fecal Coliform, MPN ⁹	20 to 2400	Log transform; ±3 SD			2
NPW		2525	E.coli, MPN ⁹	20 to 2400	Log transform; ±3 SD			2
NPW		2520	Enterococci, MPN ⁹	20 to 1000	Log transform; ±3 SD			2
			Trace Metals	µg/L				µg/L
NPW	0001	1000	Aluminum	200 to 4000	0.9919	4.2186	0.0513	12.2782
NPW	0016	1005	Antimony	95 to 900	0.959	-3.6479	0.0779	3.2351
NPW	0002	1010	Arsenic	70 to 900	1.0062	-0.7508	0.0529	1.408
NPW	0237	1015	Barium	100 to 2500	0.9986	-0.6148	0.0433	0.0448
NPW	0003	1020	Beryllium	8 to 900	0.991	-0.6177	0.046	0.278
NPW		1025	Boron	800 to 2000	0.9815	13.987	0.0603	-3.4879
NPW	0004	1030	Cadmium	8 to 750	0.994	0.2323	0.0463	0.3919
NPW	0006	1040	Chromium, total	17 to 1000	1.0015	-0.2586	0.042	0.7988
NPW	0238	1045	Chromium VI	45 to 880	0.9974	-1.1203	0.0575	1.5828
NPW	0005	1050	Cobalt	28 to 1000	1.0002	-0.281	0.0395	0.4922
NPW	0007	1055	Copper	40 to 900	1.0031	-0.089	0.0296	1.2415
NPW	0008	1070	Iron	200 to 4000	1.0056	1.1497	0.039	2.0258
NPW	0012	1075	Lead	70 to 3000	0.9974	0.2778	0.0377	2.5294
NPW	0010	1090	Manganese	70 to 4000	1.0059	-1.1375	0.0351	0.3422
NPW	0009	1095	Mercury ^{10a}	2.0 to 30	0.9772	0.0995	0.1211	0.0262
NPW	0074	1100	Molybdenum	60 to 600	0.9950	-0.0183	0.0445	2.1345
NPW	0011	1105	Nickel	80 to 3000	1.0125	-1.6585	0.0333	2.0479
NPW	0013	1140	Selenium	90 to 2000	0.9774	-1.2658	0.0594	1.0204
NPW	0017	1150	Silver	26 to 600	1.0024	-0.2284	0.0475	0.1752
NPW	0075	1160	Strontium	30 to 300	1.0025	-0.2355	0.0390	1.1644
NPW	0018	1165	Thallium	60 to 900	1.0109	-4.1903	0.0495	8.6236
NPW	0239	1175	Tin	1000 to 5000	1.005	-6.8244	0.073	-4.266
NPW	0076	1180	Titanium	80 to 300	0.9927	0.075	0.042	0.577
NPW	0014	1185	Vanadium	55 to 2000	0.9969	0.1627	0.0399	0.3403
NPW	0015	1190	Zinc	100 to 2000	1.0014	2.1592	0.0464	1.5819

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	Analyte Code	Analyte Code			a	b	c	d
			Demands ^{10b}	mg/L				mg/L
NPW	0038	1530	5-day BOD ^{10c}	15 to 250	0.6312	0.1919	0.1032	0.167
NPW	0102	1555	Carbonaceous BOD ^{10c}	15 to 250	0.5423	0.2956	0.0996	0.0697
NPW	0036	1565	COD ^{10d}	30 to 250	0.9517	0.4748	0.0471	2.4507
NPW	0037	2040	TOC ^{10e}	6.0 to 100	0.9904	0.1647	0.0508	0.1115
			Minerals	mg/L				mg/L
NPW	0027	1505	Alkalinity, total (CaCO ₃)	10 to 120	0.9775	1.2668	0.0223	1.1905
NPW	1540	1540	Bromide	1.0 to 10	1.0098	-0.0533	0.0400	0.0912
NPW	0023	1035	Calcium	3.5 to 110	1.0135	0.0036	0.0377	0.1333
NPW	0028	1575	Chloride	35 to 275	0.9941	0.5826	0.0415	0.5513
NPW	0029	1730	Fluoride	0.3 to 4	1.0029	-0.0032	0.0423	0.0401
NPW		1550	Calcium hardness as CaCO ₃	8.7 to 275	1.0135	0.0090	0.0377	0.3328
NPW	0022	1755	Hardness, total (CaCO ₃)	17 to 440	See footnote 11			8.4
NPW	0024	1085	Magnesium	2.0 to 40	1.0056	-0.0744	0.0483	0.0094
NPW	0026	1125	Potassium	4.0 to 40	1.0104	-0.0582	0.0569	0.1131
NPW	0025	1155	Sodium	6.0 to 100	0.9949	0.2127	0.0487	0.0668
NPW	0020	1610	Spec. Cond. (25°C)	200 to 930 µmhos/cm	study mean		0.0263	3.5534
NPW	0030	2000	Sulfate	5.0 to 125	0.9854	0.0483	0.0471	0.4629
NPW		2005	Sulfide	1.0 to 10	0.9657	-0.1271	0.1205	0.2816
NPW	0021	1955	Total Dissolved Solids at 180°C	140 to 650	study mean		0.0686	4.3676
NPW	0105	1950	Total Solids	140 to 675	0.9875	1.789	0.0107	9.594
			Nutrients	mg/L				mg/L
NPW	0031	1515	Ammonia as N	0.65 to 19	0.9866	0.0806	0.0775	0.0738
NPW	0032	1810	Nitrate as N	0.25 to 40	0.9921	0.0096	0.0708	0.0050
NPW		1820	Nitrate-nitrite as N	0.25 to 40	0.9879	0.0080	0.0575	0.0053
NPW		1840	Nitrite as N	0.4 to 4.0	1.0021	-0.0056	0.0432	0.0214
NPW	0033	1870	Orthophosphate as P	0.5 to 5.5	1.0026	0.0055	0.0537	0.0268
NPW	0034	1795	Total Kjeldahl-Nitrogen ^{10f}	1.5 to 35	0.9645	0.1885	0.1035	0.0225
NPW	0035	1910	Total Phosphorus	0.5 to 10	1.0014	0.0224	0.0553	0.0320

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	Analyte	Analyte						
	Code	Code		a	b	c	d	
			Misc. Analytes	mg/L				mg/L
NPW		1500	Acidity, as CaCO ₃	650 to 1800	±10% fixed acceptance limit			585
NPW		1605	Color	10 to 75 PC units	0.9474	0.6098	0.0367	2.4407
NPW	0072	1960	Non-Filterable Residue	23 to 100	0.9728	-0.6338	0.0300	1.5793
NPW	0019	1900	pH ^{10g}	5.0 to 10 units	± 0.2 units fixed acceptance limit			Not applicable
NPW	0071	1645	Total Cyanide ^{10h}	0.1 to 1	0.9931	0.0052	0.0922	0.0234
NPW	0097	1905	Total Phenolics (4AAP) ¹⁰ⁱ	0.06 to 5	0.6618	0.0001	0.0975	0.003
NPW	0098	1940	Total Residual Chlorine	0.5 to 3.0	0.9643	0.0186	0.0848	0.0027
NPW		1965	Settleable solids	5.0 to 50 mL/L	1.0436	-0.0108	0.0597	0.4546
NPW		1990	Silica as SiO ₂	50 to 250	±25% fixed acceptance limit			38
NPW		2025	Surfactants - MBAS	0.2 to 1.0	1.0421	-0.0068	0.1326	0.0046
NPW		2055	Turbidity ^{10j}	2.0 to 30 NTU	1.0040	-0.0368	0.0475	0.1575
NPW		1970	Volatile solids, Total	100 to 500	0.9644	-4.7559	0.0182	14.9450
			Low Level Analytes ¹²					
NPW		1095	Mercury ^{10a}	20 to 100 ng/L	0.9910	0.2064	0.0432	2.5774
NPW		1940	Total Residual Chlorine	75 to 250 µg/L	1.0000	0.0000	0.0000	20.0000

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	Analyte	Analyte							
	Code	Code			a	b	c	d	
			Volatile Aromatics ¹	µg/L					µg/L
NPW	0065	4375	Benzene	8.0 to 120	0.9947	0.1003	0.0832	0.4709	4.6
NPW	0064	4475	Chlorobenzene	10 to 120	0.9830	0.2498	0.0867	0.1251	7.1
NPW	0094	4610	1,2-Dichlorobenzene	8.0 to 100	0.9963	-0.0300	0.0971	0.2351	4.9
NPW	0096	4615	1,3-Dichlorobenzene	9.0 to 125	0.9776	-0.1210	0.0949	0.2922	5.2
NPW	0095	4620	1,4-Dichlorobenzene	8.0 to 115	0.9569	0.5677	0.0901	0.3965	4.9
NPW	0066	4765	Ethylbenzene	9.0 to 100	0.9748	0.2941	0.0927	0.2538	5.8
NPW	0222	5005	Naphthalene	15 to 150	0.8785	1.4343	0.1335	0.7561	6.3
NPW	0067	5140	Toluene	7.0 to 100	0.9651	0.5102	0.0908	0.1429	4.9
NPW	0092	5155	1,2,4-Trichlorobenzene	15 to 150	0.9160	-1.3028	0.1473	0.5100	4.3
NPW	0242	5260	Xylenes, total ¹³	20 to 300	0.9498	1.1598	0.1232	0.7309	10
			Volatile Ketones/Ethers ¹	µg/L					µg/L
NPW		4860	2-Hexanone	20 to 200	1.0054	-1.1748	0.1534	1.7764	4.4
NPW		4995	4-Methyl-2-pentanone (MIBK)	20 to 200	0.9906	-0.7774	0.1482	1.9461	4.3
NPW		5000	Methyl tert-butyl ether (MTBE)	15 to 150	1.0233	-0.3620	0.1112	0.3083	9.0

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	Analyte	Analyte							
	Code	Code			a	b	c	d	
			Volatile Halocarbons ¹	µg/L				µg/L	
NPW	0060	4395	Bromodichloromethane	8.0 to 115	1.0357	-0.4163	0.1057	0.0858	5.0
NPW	0062	4400	Bromoform	11 to 100	1.0311	-1.2680	0.1201	0.1464	5.6
NPW	0243	4950	Bromomethane	20 to 100	± 60% fixed acceptance limit				8.0
NPW	0058	4455	Carbon tetrachloride	10 to 140	0.9443	0.6895	0.1362	-0.0042	6.0
NPW	0244	4485	Chloroethane	20 to 100	± 60% fixed acceptance limit				8.0
NPW	0055	4505	Chloroform	12 to 95	0.9782	0.7000	0.0944	0.2960	8.1
NPW	0245	4960	Chloromethane	20 to 100	± 60% fixed acceptance limit				8.0
NPW	0061	4575	Dibromochloromethane	11 to 140	1.0106	-0.3030	0.1066	0.0429	7.2
NPW	4630	1,1-Dichloroethane	10 to 150	0.9977	0.2117	0.1227	0.0174	6.4	
NPW	0054	4635	1,2 Dichloroethane	10 to 150	0.9944	0.6439	0.0996	0.2430	6.8
NPW	0246	4640	1,1-Dichloroethene	11 to 120	0.9755	0.4917	0.1558	-0.0034	6.1
NPW	4645	cis-1,2-Dichloroethene	10 to 150	0.9973	0.3699	0.1095	0.0036	7.0	
NPW	0247	4700	trans-1,2-Dichloroethene	10 to 150	0.9923	0.4034	0.1103	1.1416	3.6
NPW	0248	4655	1,2-Dichloropropane	10 to 150	0.9845	0.1804	0.1062	0.2955	5.9
NPW	4680	cis-1,3-Dichloropropene	10 to 150	0.9704	-0.5083	0.0943	0.4146	5.1	
NPW	0249	4685	trans-1,3-Dichloropropene	8.0 to 90	1.0191	-1.2898	0.1180	0.0196	3.9
NPW	0063	4975	Methylene Chloride	10 to 125	0.9904	0.7613	0.1244	0.3606	5.8
NPW		5100	Styrene	20 to 100	1.0019	0.1069	0.1268	-0.3703	13
NPW	0250	5110	1,1,2,2-Tetrachloroethane	10 to 150	1.0143	0.6507	0.1343	0.9582	3.9
NPW	0059	5115	Tetrachloroethene	10 to 150	0.9416	-0.5063	0.1189	0.3441	4.3
NPW	0056	5160	1,1,1-Trichloroethane	10 to 90	0.9579	0.7134	0.1131	0.1383	6.5
NPW	0251	5165	1,1,2-Trichloroethane	25 to 150	0.9818	0.9864	0.0979	0.2099	17
NPW	0057	5170	Trichloroethene	10 to 95	0.9611	0.5720	0.1077	0.2478	6.2
NPW	0252	5175	Trichlorofluoromethane	20 to 100	± 60% fixed acceptance limit				8.0
NPW	0253	5235	Vinyl chloride	20 to 100	± 60% fixed acceptance limit				8.0
			Volatile Petroleum Hydrocarbons	µg/L				µg/L	
NPW		9408	Gasoline range organics (GRO) ¹⁴	400 to 4000	1.0683	-7.7234	0.2162	35.0439	55

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	Analyte Code	Analyte Code			a	b	c	d
			Base/Neutrals ¹	µg/L				µg/L
NPW	0189	5500	Acenaphthene	10 to 200	0.7692	2.3467	0.1308	0.1433
NPW	0190	5505	Acenaphthylene	10 to 200	0.799	0.6883	0.13	0.6054
NPW	0192	5555	Anthracene	10 to 200	0.8168	1.6860	0.1344	0.3049
NPW	0176	5595	Benzidine	200 to 1000	1.167	-12.268	0.579	-0.301
NPW	0177	5575	Benzo(a)anthracene	10 to 200	0.8592	0.1699	0.1324	0.2827
NPW	0254	5670	Benzyl butyl phthalate	50 to 200	0.8086	-0.1081	0.1818	2.8651
NPW	0178	5585	Benzo(b)fluoranthene	20 to 125	0.8568	0.2258	0.1503	0.8321
NPW	0179	5600	Benzo(k)fluoranthene	25 to 200	0.8223	1.996	0.1862	1.126
NPW	0180	5590	Benzo(g,h,i)perylene	20 to 200	0.8717	-0.4162	0.1406	1.8871
NPW	0255	5580	Benzo(a)pyrene	20 to 160	0.7547	2.2185	0.1551	0.5266
NPW	0198	5660	4-Bromophenyl-phenylether	20 to 200	0.8099	2.3636	0.1677	0.1142
NPW	0195	5760	bis(2-Chloroethoxy)methane	10 to 200	0.7828	0.898	0.128	0.4366
NPW	0196	5765	bis(2-Chloroethyl)ether	10 to 200	0.712	3.7209	0.154	0.48
NPW	0197	5780	bis(2-Chloroisopropyl) ether	30 to 200	0.6943	4.2457	0.1580	0.4258
NPW	0204	5825	4-Chlorophenyl-phenylether	25 to 200	0.7921	1.9652	0.1413	0.4139
NPW	0203	5795	2-Chloronaphthalene	20 to 200	0.7526	0.4699	0.1461	0.4542
NPW	0181	5855	Chrysene	10 to 200	0.8153	2.8201	0.1454	0.4654
NPW	0182	5895	Dibenzo(a,h)anthracene	20 to 100	0.8191	1.4972	0.1766	0.7749
NPW		5905	Dibenzofuran	30 to 125	0.7594	3.6744	0.1427	0.5944
NPW		4610	1,2-Dichlorobenzene	30 to 150	0.6396	1.9392	0.1644	1.4848
NPW		4615	1,3-Dichlorobenzene	30 to 150	0.6206	2.4567	0.1696	0.4375
NPW		4620	1,4-Dichlorobenzene	30 to 150	0.6238	2.0966	0.1693	1.4687
NPW	0185	5945	3,3'-Dichlorobenzidine	60 to 200	0.901	-0.5596	0.199	2.5071
NPW	0208	6070	Diethyl phthalate	65 to 170	0.7492	3.3637	0.1805	2.0213
NPW	0209	6135	Dimethyl phthalate	100 to 180	0.6375	3.9631	0.2524	0.8174
NPW	0205	5925	Di-n-butyl phthalate	40 to 180	0.7665	5.1677	0.1519	1.1586
NPW	0186	6185	2,4-Dinitrotoluene	20 to 190	0.7893	1.5498	0.1311	1.3861
NPW	0210	6190	2,6-Dinitrotoluene	20 to 190	0.8382	-0.5125	0.1354	0.4540
NPW	0211	6200	Di-n-octyl phthalate	40 to 190	0.7877	6.3589	0.2174	-0.7312
NPW	0256	6065	bis(2-Ethylhexyl) phthalate	20 to 200	0.7960	3.9523	0.1698	1.0070
NPW	0212	6265	Fluoranthene	30 to 190	0.7829	4.1019	0.1195	0.7518
NPW	0213	6270	Fluorene	30 to 190	0.7942	1.7962	0.1083	1.8219
NPW	0214	6275	Hexachlorobenzene	20 to 190	0.8153	1.5416	0.1227	0.9249
NPW	0215	4835	Hexachlorobutadiene	50 to 180	0.6286	2.6591	0.1616	1.9082
NPW	0216	6285	Hexachlorocyclopentadiene	100 to 225	0.6216	-4.4226	0.2049	4.3222
NPW	0217	4840	Hexachloroethane	50 to 190	0.6260	1.5100	0.1722	0.6725
NPW	0218	6315	Indeno(1,2,3, cd)pyrene	30 to 125	0.7650	1.1259	0.1377	2.4614
NPW	0219	6320	Isophorone	30 to 140	0.8256	1.6016	0.1489	0.0824
NPW		6385	2-Methylnaphthalene	30 to 190	0.6340	4.4846	0.1349	2.6122

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			Base/Neutrals ¹ cont'	µg/L				µg/L
NPW	0222	5005	Naphthalene	30 to 190	0.6879	4.2817	0.1513	0.2921
NPW	0226	5015	Nitrobenzene	20 to 190	0.7413	2.4610	0.1470	0.3946
NPW	0227	6530	N-Nitrosodimethylamine	75 to 200	0.532	0.7787	0.202	1.4455
NPW	0230	6545	N-Nitroso-di-n-propylamine	30 to 140	0.7646	2.2742	0.1370	2.6637
NPW	0229	6535	N-Nitrosodiphenylamine	30 to 200	0.776	1.9604	0.178	0.9231
NPW	0231	6615	Phenanthrene	30 to 140	0.7965	3.7050	0.1194	0.4330
NPW	0187	6665	Pyrene	30 to 200	0.8196	2.682	0.161	1.062
NPW	0092	5155	1,2,4-Trichlorobenzene	35 to 180	0.6923	1.5037	0.1490	1.3815
			Acids ¹	µg/L				µg/L
NPW	0161	5700	4-Chloro-3-methylphenol	30 to 200	0.845	-0.891	0.146	0.3823
NPW	0162	5800	2-Chlorophenol	30 to 200	0.754	2.2054	0.163	-0.185
NPW	0163	6000	2,4-Dichlorophenol	40 to 190	0.7618	1.8795	0.1392	1.4585
NPW		6005	2,6-Dichlorophenol	40 to 200	0.7512	3.7563	0.1564	0.0312
NPW	0165	6130	2,4-Dimethylphenol	65 to 200	0.77	-0.7906	0.174	1.0376
NPW	0167	6175	2,4-Dinitrophenol	100 to 180	0.6531	3.5920	0.1695	8.5727
NPW	0168	6360	2-Methyl-4,6-Dinitrophenol	60 to 200	0.9582	-10.24	0.1756	0.4841
NPW		6400	2-Methylphenol (o-Cresol)	50 to 200	0.6983	1.6107	0.1704	0.4833
NPW		6410	4-Methylphenol (p-Cresol) ¹⁵	50 to 200	0.6531	2.1854	0.2008	0.7807
NPW	0171	6490	2-Nitrophenol	50 to 190	0.7650	0.8551	0.1948	-2.1253
NPW	0173	6500	4-Nitrophenol	100 to 180	0.5591	-1.0075	0.2511	1.9409
NPW	0174	6625	Phenol	100 to 200	0.557	0.5929	0.253	1.0269
NPW	0158	6605	Pentachlorophenol	55 to 200	0.849	-3.1159	0.178	1.0189
NPW	0175	6835	2,4,5-Trichlorophenol	50 to 200	0.7760	4.7287	0.1503	0.4511
NPW	0159	6840	2,4,6-Trichlorophenol	50 to 200	0.7640	2.6926	0.1479	0.9226

NELAC PT for Accreditation								
Fields of Proficiency Testing with PTRLs								
Non-Potable Water (NPW)								
Effective October 3, 2011								
			Red = Previous Experimental Analytes/Footnotes		Blue = New Analyte/Footnote		Magenta = Changes	
Matrix	EPA	NELAC	Analyte ^{1,2}	Conc Range	Acceptance Criteria ^{3,4,5,6}			NELAC PTRL ⁷
	Analyte	Analyte						
	Code	Code			a	b	c	d
			PCBs in Water ²	µg/L				µg/L
NPW	0040	8880	Aroclor 1016	3.8 to 13	0.8344	0.081	0.2101	-0.1922
NPW	0041	8885	Aroclor 1221	1 to 15	0.7867	0.2517	0.2005	0.1023
NPW	0042	8890	Aroclor 1232	1.4 to 4	0.9463	-0.0779	0.3325	-0.2539
NPW	0040	8895	Aroclor 1242	3.8 to 13	0.8344	0.081	0.2101	-0.1922
NPW	0044	8900	Aroclor 1248	1.5 to 5.5	0.9327	-0.0919	0.1699	-0.0187
NPW	0045	8905	Aroclor 1254	1.7 to 5.5	0.8622	0.114	0.1129	0.1214
NPW	0046	8910	Aroclor 1260	1.6 to 5	0.9507	-0.1281	0.1087	0.085
			Organochlorine Pesticides ¹	µg/L				µg/L
NPW	0047	7025	Aldrin	0.5 to 15.0	0.8245	0.0361	0.1824	0.0020
NPW	0079	7110	alpha-BHC	2.0 to 15	0.9027	-0.0286	0.1395	0.1128
NPW	0080	7115	beta-BHC	2.0 to 15	0.8729	0.1076	0.1494	0.0605
NPW	0081	7105	delta-BHC	2.0 to 15	0.8960	-0.0924	0.1650	0.0440
NPW	0082	7120	gamma-BHC (Lindane)	2.0 to 15	0.8868	0.0496	0.1549	0.0485
NPW		7240	alpha-Chlordane	1.0 to 9.8	0.8846	0.0940	0.1442	0.0369
NPW		7245	gamma-Chlordane	1.2 to 7.8	0.8643	0.1274	0.1555	0.0157
NPW	0053	7250	Chlordane (total)	3.0 to 25	0.9080	0.0288	0.1774	0.0125
NPW	0049	7355	4,4'-DDD	2.0 to 10.0	0.8735	0.1655	0.1739	0.0166
NPW	0050	7360	4,4'-DDE	2.0 to 10.0	0.8586	0.0716	0.1349	0.0458
NPW	0051	7365	4,4'-DDT	1.0 to 10	0.8798	0.1065	0.1692	0.0325
NPW	0048	7470	Dieldrin	1.0 to 13	0.9229	0.0173	0.1415	0.0280
NPW	0083	7510	Endosulfan I	4.0 to 17	0.9252	-0.5541	0.1932	-0.0031
NPW	0084	7515	Endosulfan II	4.0 to 20	0.7859	0.4000	0.1682	0.0173
NPW	0085	7520	Endosulfan sulfate	2.0 to 20	0.9216	-0.0333	0.1790	0.0136
NPW	0086	7540	Endrin	2.0 to 20	0.9005	0.1935	0.1886	0.0033
NPW	0087	7530	Endrin aldehyde	4.0 to 20	0.8812	0.1766	0.1825	0.1917
NPW		7535	Endrin ketone	4.0 to 20	0.8951	0.3702	0.1135	0.1902
NPW	0052	7685	Heptachlor	1.0 to 10	0.8358	0.0592	0.1710	0.0174
NPW	0078	7690	Heptachlor Epoxide (beta)	1.0 to 10	0.9449	0.0145	0.1448	0.0339
NPW	0234	7810	Methoxychlor	2.0 to 15	0.9125	0.1018	0.2095	0.0902
NPW	0241	8250	Toxaphene	20 to 100	0.8500	0.1293	0.3186	0.0039

NELAC PT for Accreditation									
Fields of Proficiency Testing with PTRLs									
Non-Potable Water (NPW)									
Effective October 3, 2011									
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Matrix	EPA	NELAC	Analyte ^{1,2}	Conc Range	Acceptance Criteria ^{3,4,5,6}			NELAC PTRL ⁷	
	Analyte Code	Analyte Code			a	b	c	d	
			Herbicides ¹	µg/L					µg/L
NPW	0257	8545	2,4-D	2 to 10	0.7510	0.1195	0.2675	0.1049	0.20
NPW	0258	8595	Dicamba	2 to 10	0.759	0.059	0.214	0.0954	0.20
NPW	0140	8655	2,4,5-T	2 to 10	0.783	-0.0043	0.205	0.1616	0.20
NPW	0259	8650	2,4,5-TP (Silvex)	2 to 10	0.7987	0.0112	0.2001	0.1190	0.20
			Low Level Polyaromatic Hydrocarbons (PAHs) ¹	µg/L					µg/L
NPW		5500	Acenaphthene	2.0 to 20	0.7600	0.1476	0.1456	0.0021	0.79
NPW		5505	Acenaphthylene	2.0 to 20	0.7856	0.0418	0.1133	0.0687	0.73
NPW		5555	Anthracene	0.5 to 5.0	0.8151	0.0194	0.1714	0.0115	0.14
NPW		5575	Benzo(a)anthracene	0.5 to 5.0	0.9012	-0.0236	0.0614	0.0462	0.20
NPW		5580	Benzo(a)pyrene	0.5 to 5.0	0.7745	0.0824	0.1162	0.0270	0.21
NPW		5585	Benzo(b)fluoranthene	0.5 to 5.0	0.8217	0.0544	0.1167	0.0144	0.25
NPW		5590	Benzo(g,h,i)perylene	0.5 to 5.0	0.7683	0.0737	0.1641	0.0088	0.18
NPW		5600	Benzo(k)fluoranthene	0.5 to 5.0	0.8943	-0.0069	0.1245	0.0108	0.22
NPW		5855	Chrysene	0.5 to 5.0	0.8883	0.0132	0.1046	0.0235	0.23
NPW		5895	Dibenz(a,h)anthracene	0.5 to 5.0	0.7914	0.0640	0.1377	0.0520	0.10
NPW		6265	Fluoranthene	0.5 to 5.0	0.8565	0.0211	0.1064	0.0128	0.25
NPW		6270	Fluorene	2.0 to 10	0.7863	0.0472	0.1153	0.0631	0.74
NPW		6315	Indeno(1,2,3-cd)pyrene	0.5 to 5.0	0.8224	0.0623	0.1316	0.0267	0.20
NPW		5005	Naphthalene	2.0 to 10	0.7279	0.0977	0.1251	0.0803	0.56
NPW		6615	Phenanthrene	0.5 to 5.0	0.8332	0.0256	0.1099	0.0118	0.24
NPW		6665	Pyrene	0.5 to 5.0	0.8468	0.0435	0.1023	0.0095	0.28
			Petroleum Hydrocarbons						
NPW		9369	Diesel range organics (DRO) ¹⁶	800 to 6000 µg/L	0.7790	-96.0467	0.1386	109.1897	80 µg/L
NPW	0104	1860	n-Hexane Extractable Material (O&G) ^{10k,17}	20 to 200 mg/L	0.9400	-0.4116	0.0545	2.0789	8.8 mg/L
NPW		1935	non-Polar Extractable Material (TPH) ¹⁸	20 to 200 mg/L	0.9692	-1.1573	0.1586	0.3709	7.6 mg/L

NELAC PT for Accreditation								
Fields of Proficiency Testing with PTRLS								
Non-Potable Water (NPW)								
Effective October 3, 2011								
			Red = Previous Experimental Analytes/Footnotes		Blue = New Analyte/Footnote		Magenta = Changes	
Matrix	EPA	NELAC	Analyte ^{1,2}	Conc Range	Acceptance Criteria ^{3,4,5,6}			NELAC PTRL ⁷
	Analyte	Analyte						
	Code	Code			a	b	c	d
1) For volatiles, base/neutrals, acids, organochlorine pesticides, herbicides and low level PAHs, providers must include a minimum number of analytes using the criteria described below:								
PT samples that are to be scored for one to ten analytes must include all of these analytes.								
PT samples that are to be scored for ten to twenty analytes must include at least ten of these analytes or 80% of the total, whichever number is greater.								
PT samples that are to be scored for more than twenty analytes must include at least sixteen of these analytes or 60% of the total, whichever number is greater.								
If the calculated percentage of the total number of analytes in the PT sample is a fraction, the fraction shall be rounded up to the next whole number.								
2) One sample (minimum) in every study, containing one Aroclor, selected at random from among the Aroclors listed above.								
3) Acceptance limits are set at the Mean $\pm$ 3 SD								
Where the a, b, c and d factors are presented, Mean = $a \cdot T + b$; SD = $c \cdot T + d$ where T is the assigned value.								
Where only the c and d factors are presented, Mean = Robust Study Mean; SD = $c \cdot X + d$ where X is the Robust Study Mean.								
Where no factors are presented (Study Mean $\pm$ 3SD), Mean = Robust Study Mean, SD = Robust Study Standard Deviation.								
Robust Study Mean and Standard Deviation are generated using statistical analysis of study data set. (ie. Bi-weight, Grubbs, Dixon, etc.)								
Quantitative Microbiology acceptance criteria are based on the robust participant Mean and SD determined from each respective PT study.								
4) If the lower acceptance limit generated using the criteria contained in this table is less than (<) 10% of the assigned value, the lower acceptance limits are set at 10% of the assigned value with the exception of microbiology analytes.								
5) If the lower acceptance limit generated using the criteria contained in this table is greater than 90% of the assigned value, the lower acceptance limits are set at 90% of the assigned value with the exception of microbiology analytes.								
6) If the upper acceptance limit generated using the criteria contained in this table is less than 110% of the assigned value, the upper acceptance limits are set at 110% of the assigned value with the exception of microbiology analytes.								
7) NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. These levels are the lowest acceptable results that could be obtained from the lowest spike level for each analyte. The laboratory should report any positive result down to the PTRL. It is recognized that in some cases (especially for analytes that typically exhibit low recovery) the PTRL may be below the standard laboratory reporting limit. However, the laboratory should use a method that is sensitive enough to generate results at the PTRL shown. NELAC PTRLs are also provided as guidance to PT Providers. At a minimum for all analytes with an assigned value equal to "0", the PT Provider should verify that the sample does not contain the analyte at a concentration greater than or equal to the PTRL.								
8) These limits are for quantitative methods using membrane filtration techniques.								
9) These limits are for quantitative methods using most probable number techniques.								

NELAC PT for Accreditation								
Fields of Proficiency Testing with PTRLs								
Non-Potable Water (NPW)								
Effective October 3, 2011								
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Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte ^{1,2}	Conc Range	Acceptance Criteria ^{3,4,5,6}			NELAC PTRL ⁷
				a	b	c	d	
10) The following recommended sample designs, which were used in past USEPA studies, should be used as model designs because other designs may not give equivalent statistics. PT study providers may vary their sample designs from those shown. The specifics within each sample are within the discretion of the PT study Provider.								
			a) Design criterion for Mercury – 1:1 (mole:mole as Hg) Mercuric Oxide and Methyl Mercuric Chloride.					
			b) Design criteria for Demands – 1:1 Glucose and Glutamic Acid.					
			c) Design criteria for 5-Day BOD and Carbonaceous BOD – The assigned value used for BOD and CBOD is the known concentration in mg/Liter of Glucose - Glutamic Acid present in the sample ready for analysis.					
			d) Design criterion for Chemical Oxygen Demand – The assigned value of COD is (1.066 times mg Glucose plus 0.9787 times mg Glutamic Acid) divided by total liters of sample adjusted for required dilutions.					
			e) Design criterion for Total Organic Carbon – The assigned value of TOC is (0.4000 times mg Glucose plus 0.4082 times mg Glutamic Acid) divided by total liters of sample adjusted for required dilutions.					
			f) Design criterion for Total Kjeldahl Nitrogen – Glycine is the source of TKN.					
			g) Design criterion for pH – in separate solution (use buffer formulation from chemical handbook).					
			h) Design criterion for Total Cyanide – Potassium Ferricyanide.					
			i) Design criterion for Total Phenolics (4AAP) – 40% Phenol, 20% 2-Chlorophenol, 20% 2,4-Dinitrophenol, 20% 2,4-Dichlorophenol (mole %), calculated as mg/L Phenol.					
			j) Design criterion for Turbidity - Formazin is the source for Turbidity.					
			k) Design criterion for Oil and Grease – 1:1 Paraffin oil and cooking oil.					
11) The Acceptance Criteria for Hardness, total (CaCO ₃) is a function of the Lower Acceptance Limit (LAL) and Upper Acceptance Limit (UAL) of both Calcium and Magnesium and are calculated as follows: Lower Acceptance Limit = Ca LAL*2.497 + Mg LAL*4.118 Upper Acceptance Limit = Ca UAL*2.497 + Mg UAL*4.118								
12) The Low Level Analytes' concentration ranges and acceptance criteria are specifically intended for technologies/methods that can achieve the listed PTRL.								
13) Volatiles Aromatics must contain all three Xylene isomers. The concentration range of o-Xylene and m&p-Xylene is 10-150 µg/L each.								
14) Gasoline Range Organics (GRO) per purge-and-trap extraction followed by chromatographic analysis. GRO is defined as the carbon range between n-C5 and n-C10.								

NELAC PT for Accreditation								
Fields of Proficiency Testing with PTRLs								
Non-Potable Water (NPW)								
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Matrix	EPA	NELAC	Analyte ^{1,2}	Conc Range	Acceptance Criteria ^{3,4,5,6}			NELAC PTRL ⁷
	Analyte	Analyte						
	Code	Code			a	b	c	d
15) Laboratories seeking or maintaining NELAP accreditation for Non-Potable Water 4-Methylphenol or the coeluting isomer pair of 3-Methylphenol and 4-Methylphenol must meet the NELAC PT requirements for this Field of Proficiency Testing (4-Methylphenol).								
16) Diesel Range Organics (DRO) per solvent extraction followed by chromatographic analysis. DRO is defined as the carbon range between n-C ₁₀ and n-C ₂₈ .								
17) n-Hexane Extractable Material (HEM) per solvent extraction followed by gravimetric or infrared spectrometric analysis (Oil & Grease).								
18) non-Polar Extractable Material per solvent extraction and Silica Gel Treated (SGT) followed by gravimetric or infrared spectrometric analysis (Total Petroleum Hydrocarbons).								