



TNI PT for Accreditation
Fields of Proficiency Testing with PTRLs
Drinking Water
Effective: October 1, 2020

Blue = New Analyte

Magenta = Changes

Matrix	EPA Analyte Code	TNI Analyte Code	CAS Number	Analyte ²	Conc Range	Acceptance Criteria ^{3,4,5,6}				TNI PTRL ⁷
					a	b	c	d		
Microbiology					CFU/100 mL					CFU/100 mL
Drinking Water	0254	2500	NA	Total Coliform ^{8,9,10}		Nine out of ten correct with no false negatives				Not Applicable
Drinking Water	0255	2530	NA	Fecal Coliform ^{8,9,10}		Nine out of ten correct with no false negatives				Not Applicable
Drinking Water		2525	NA	E.coli ^{8,9,10}		Nine out of ten correct with no false negatives				Not Applicable
					CFU (MPN)/mL					CFU (MPN)/mL
Drinking Water	0258	2555	NA	Heterotrophic Plate Count (MF, PP) ¹¹	5 to 500	Log transform Mean ± 2 SD				2
Drinking Water	0258	2555	NA	Heterotrophic Plate Count (MPN) ¹²	5 to 500	Log transform Mean ± 2 SD				2
					CFU (MPN)/100 mL					CFU (MPN)/100 mL
Drinking Water		2525	NA	E.coli (MF) ¹¹	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0255	2530	NA	Fecal Coliform (MF) ¹¹	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0254	2500	NA	Total Coliform (MF) ¹¹	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water		2525	NA	E.coli (MPN-Multiple Tube) ¹²	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water		2525	NA	E.coli (MPN-Multiple Well) ¹²	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0255	2530	NA	Fecal Coliform (MPN-Multiple Tube) ¹²	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0255	2530	NA	Fecal Coliform (MPN-Multiple Well) ¹²	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0254	2500	NA	Total Coliform (MPN-Multiple Tube) ¹²	20 to 200	Log transform Mean ± 2 SD				2
Drinking Water	0254	2500	NA	Total Coliform (MPN-Multiple Well) ¹²	20 to 200	Log transform Mean ± 2 SD				2



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						a	b	c	d	
Trace Metals					µg/L					µg/L
Drinking Water	0235	1000	7429-90-5	Aluminum	130 to 1000	± 20% at < 500 ± 15% ≥ 500 fixed acceptance limit				104
Drinking Water	0140	1005	7440-36-0	Antimony ¹	6 to 50	±30% fixed acceptance limit				4.2
Drinking Water	0001	1010	7440-38-2	Arsenic ¹	5 to 50	±30% fixed acceptance limit				3.5
Drinking Water	0002	1015	7440-39-3	Barium ¹	500 to 3000	±15% fixed acceptance limit				420
Drinking Water	0141	1020	7440-41-7	Beryllium ¹	2 to 20	±15% fixed acceptance limit				1.7
Drinking Water	0226	1025	7440-42-8	Boron	800 to 2000	±15% fixed acceptance limit				680
Drinking Water	0003	1030	7440-43-9	Cadmium ¹	2 to 50	±20% fixed acceptance limit				1.6
Drinking Water	0004	1040	7440-47-3	Chromium ¹	10 to 200	±15% fixed acceptance limit				8.5
Drinking Water		1045	18540-29-9	Chromium (VI)	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0091	1055	7440-50-8	Copper ¹	50 to 2000	±10% fixed acceptance limit				45
Drinking Water	0284	1070	7439-89-6	Iron	100 to 1800	± 20% at < 250 ± 15% ≥ 250 fixed acceptance limit				80
Drinking Water	0005	1075	7439-92-1	Lead ¹	5 to 100	±30% fixed acceptance limit				3.5
Drinking Water	0236	1090	7439-96-5	Manganese	40 to 900	±15% fixed acceptance limit				34
Drinking Water	0006	1095	7439-97-6	Mercury ^{1,13a}	0.5 to 10	±30% fixed acceptance limit				0.35
Drinking Water	0237	1100	7439-98-7	Molybdenum	15 to 130	±15% fixed acceptance limit				13
Drinking Water	0142	1105	7440-02-0	Nickel	10 to 500	±15% fixed acceptance limit				8.5
Drinking Water	0007	1140	7782-49-2	Selenium ¹	10 to 100	±20% fixed acceptance limit				8.0
Drinking Water	0008	1150	7440-22-4	Silver	20 to 300	±30% fixed acceptance limit				14
Drinking Water	0143	1165	7440-28-0	Thallium ¹	2 to 10	±30% fixed acceptance limit				1.4
Drinking Water	0238	1185	7440-62-2	Vanadium	50 to 1000	±15% fixed acceptance limit				42
Drinking Water	0239	1190	7440-66-6	Zinc	200 to 2000	±15% fixed acceptance limit				170
Nutrients					mg/L					
Drinking Water	0009	1810	NA	Nitrate as N ¹	3 to 10	±10% fixed acceptance limit				2.7
Drinking Water		1820	NA	Nitrate plus Nitrite as N	3 to 10	±15% fixed acceptance limit				2.6
Drinking Water	0092	1840	NA	Nitrite as N ¹	0.4 to 2	±15% fixed acceptance limit				0.34
Drinking Water	0261	1870	264888-19-9	Orthophosphate as P	0.5 to 5.5	±15% fixed acceptance limit				0.43



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Minerals					mg/L					mg/L
Drinking Water	0287	1575	16887-00-6	Chloride	20 to 160		±15% fixed acceptance limit			17
Drinking Water	0010	1730	16984-48-8	Fluoride ¹	1 to 8		±10% fixed acceptance limit			0.90
Drinking Water	0145	2000	14808-79-8	Sulfate	25 to 250		±15% fixed acceptance limit			21
Drinking Water	0286	1125	7440-09-7	Potassium	10 to 40		±15% fixed acceptance limit			8.5
Drinking Water	0029	1155	7440-23-5	Sodium	12 to 50		±15% fixed acceptance limit			11
Drinking Water	0283	1035	7440-70-2	Calcium	30 to 90		±15% fixed acceptance limit			26
Drinking Water	0285	1085	7439-95-4	Magnesium	2 to 20		±15% fixed acceptance limit			1.7
Drinking Water	0025	1550	NA	Calcium hardness as CaCO ₃	75 to 225		±15% fixed acceptance limit			64
Drinking Water		1755	NA	Total hardness as CaCO ₃	83 to 307		±15% fixed acceptance limit			71
Inorganic Disinfection By-Products					µg/L					µg/L
Drinking Water	0193	1535	15541-45-4	Bromate ¹	7 to 50		±30% fixed acceptance limit			4.9
Drinking Water	0260	1540	24959-67-9	Bromide	50 to 300		±15% fixed acceptance limit			42
Drinking Water	0194	1570	7790-93-4	Chlorate	60 to 180		±30% fixed acceptance limit			42
Drinking Water	0195	1595	NA	Chlorite ¹	100 to 1000		±30% fixed acceptance limit			70
Misc Analytes					mg/L					mg/L
Drinking Water	0027	1505	NA	Alkalinity as CaCO ₃	25 to 200		±10% fixed acceptance limit			22
Drinking Water	0253	1520	1332-21-4	Asbestos ¹	1.5 to 20 MF/l	study mean	0.2971	0.4164		1 MF/L
Drinking Water		1620	NA	Corrosivity (langelier index) ¹³ⁱ	4 to +4 SI uni		± 0.4 SI units fixed acceptance			Not Applicable
Drinking Water	0146	1635	NA	Cyanide ^{1,13b}	0.1 to 0.5		±25% fixed acceptance limit			0.075
Drinking Water		1710	NA	Dissolved Organic Carbon (DOC)	1.3 to 13	0.9744	0.0960	0.0402	0.0700	1.1
Drinking Water		1895	7601-90-3	Perchlorate	4 to 20 µg/L		±20% fixed acceptance limit			3.2 ug/L
Drinking Water	0026	1900	NA	pH	5 to 10 units		± 0.2 units fixed acceptance limit			Not Applicable
Drinking Water	0022	1945	NA	Residual free chlorine	0.5 to 3.0	1.0000	0.0004	0.0776	0.0246	0.37
Drinking Water		1990	NA	Silica as SiO ₂	5 to 75		±15% fixed acceptance limit			4.2
Drinking Water	0288	1610	NA	Conductivity	0 to 1300 µmho		±10% fixed acceptance limit			117 µmhos/cm
Drinking Water		2025	NA	Surfactants - MBAS	0.1 to 1.0	0.9804	0.0054	0.0673	0.0348	0.020
Drinking Water		1940	NA	Total Residual Chlorine	0.5 to 3.0	1.0000	-0.0048	0.0723	0.0065	0.40
Drinking Water	0024	1955	NA	Residue-filterable (TDS)	100 to 1000		±20% fixed acceptance limit			80
Drinking Water	0263	2040	NA	Total Organic Carbon (TOC)	1.3 to 13		±20% fixed acceptance limit			1.0
Drinking Water	0023	2055	NA	Turbidity ^{1,13c}	0.5 to 8 NTU	0.9755	0.0593	0.0565	0.0661	0.36 NTU
Drinking Water		2060	NA	UV 254	.05 to 0.7 cm-	0.9919	0.0043	0.0872	0.0034	0.038 cm-1



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Volatile Organic Compounds (VOCs)⁴					µg/L					µg/L
Drinking Water	0039	4375	71-43-2	Benzene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0037	4455	56-23-5	Carbon Tetrachloride ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0049	4475	108-90-7	Chlorobenzene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0054	4610	95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene) ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0041	4620	106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene) ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0035	4635	107-06-2	1,2-Dichloroethane (Ethylene dichloride) ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0034	4640	75-35-4	1,1-Dichloroethylene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0043	4645	156-59-2	cis-1,2-Dichloroethylene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0042	4700	156-60-5	trans-1,2-Dichloroethylene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0055	4975	75-09-2	Methylene chloride (Dichloromethane) ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0044	4655	78-87-5	1,2-Dichloropropane ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0048	4765	100-41-4	Ethylbenzene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0053	5100	100-42-5	Styrene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0040	5115	127-18-4	Tetrachloroethylene (Perchloroethylene) ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0047	5140	108-88-3	Toluene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0036	5160	71-55-6	1,1,1-Trichloroethane ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0061	5165	79-00-5	1,1,2-Trichloroethane ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0038	5170	79-01-6	Trichloroethene (Trichloroethylene) ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0076	5155	120-82-1	1,2,4-Trichlorobenzene ¹	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0032	5235	75-01-4	Vinyl chloride (Chloroethene) ¹	2 to 50	±40% fixed acceptance limit				1.2
Drinking Water	0090	5260	1330-20-7	Xylene (total) ^{1,14}	2 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
					µg/L					µg/L
Drinking Water	0019	4395	75-27-4	Bromodichloromethane ¹	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0018	4400	75-25-2	Bromoform ¹	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0020	4575	124-48-1	Chlorodibromomethane ¹	5 to 50	±20% fixed acceptance limit				4.0
Drinking Water	0017	4505	67-66-3	Chloroform ¹	5 to 50	±20% fixed acceptance limit				4.0



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Volatile Organic Compounds (VOCs)¹ cont'					µg/L					µg/L
Drinking Water	0067	4385	108-86-1	Bromobenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0089	4390	74-97-5	Bromochloromethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0069	4950	74-83-9	Methyl bromide (Bromomethane)	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0079	4435	104-51-8	n-Butylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0086	4440	135-98-8	sec-Butylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0085	4445	98-06-6	tert-Butylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0070	4485	75-00-3	Chloroethane (Ethyl chloride)	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0068	4960	74-87-3	Methyl chloride (Chloromethane)	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0071	4535	95-49-8	2-Chlorotoluene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0072	4540	106-43-4	4-Chlorotoluene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0057	4595	74-95-3	Dibromomethane (Methylene bromide)	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0066	4615	541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0088	4625	75-71-8	Dichlorodifluoromethane (Freon-12)	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0056	4630	75-34-3	1,1-Dichloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0059	4660	142-28-9	1,3-Dichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0060	4665	594-20-7	2,2-Dichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0058	4670	563-58-6	1,1-Dichloropropene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0152	4680	10061-01-5	cis-1,3-Dichloropropene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0153	4685	10061-02-6	trans-1,3-Dichloropropylene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0081	4835	87-68-3	Hexachlorobutadiene	5 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				3.0
Drinking Water	0084	4900	98-82-8	Isopropylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0083	4910	99-87-6	4-Isopropyltoluene (p-Cymene)	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water		5000	1634-04-4	Methyl tert-butyl ether (MTBE)	5 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				3.0
Drinking Water		5005	91-20-3	Naphthalene	5 to 50	± 40% at < 10 ± 30% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0078	5090	103-65-1	n-Propylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0063	5105	630-20-6	1,1,1,2-Tetrachloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0065	5110	79-34-5	1,1,2,2-Tetrachloroethane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0077	5150	87-61-6	1,2,3-Trichloroethane	5 to 50	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				3.0
Drinking Water	0087	5175	75-69-4	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5 to 50	±40% fixed acceptance limit				3.0
Drinking Water	0064	5180	96-18-4	1,2,3-Trichloropropane	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0075	5210	95-63-6	1,2,4-Trimethylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Drinking Water	0082	5215	108-67-8	1,3,5-Trimethylbenzene	2 to 20	± 40% at < 10 ± 20% ≥ 10 fixed acceptance limit				1.2
Low-Level Volatile Organic Compounds					µg/L					µg/L
Drinking Water	0045	4570	96-12-8	1,2-Dibromo-3-chloropropane (DBCP) ¹	0.1 to 2	±40% fixed acceptance limit				0.06
Drinking Water	0046	4585	106-93-4	1,2-Dibromoethane (EDB, Ethylene dibromide) ¹	0.05 to 2	±40% fixed acceptance limit				0.03
Drinking Water		5180	96-18-4	1,2,3-Trichloropropane	0.2 to 2.0	±40% fixed acceptance limit				0.12



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Pesticides					µg/L					µg/L
Drinking Water	0093	7005	15972-60-8	Alachlor ¹	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water	0256	7025	309-00-2	Aldrin	0.2 to 2.5	0.8618	-0.0012	0.2025	0.0054	0.08
Drinking Water	0094	7065	1912-24-9	Atrazine ¹	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water		7160	23184-66-9	Butachlor	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water	0097	7250	12789-03-6	Chlordane (tech.) ¹	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water	0258	7470	60-57-1	Dieldrin	0.5 to 2.5		±45% fixed acceptance limit			0.28
Drinking Water	0011	7540	72-20-8	Endrin ¹	0.2 to 2.5		±30% fixed acceptance limit			0.14
Drinking Water	0095	7685	76-44-8	Heptachlor ¹	0.2 to 2.5		±45% fixed acceptance limit			0.11
Drinking Water	0096	7690	1024-57-3	Heptachlor epoxide ¹	0.2 to 2.5		±45% fixed acceptance limit			0.11
Drinking Water	0172	6275	118-74-1	Hexachlorobenzene ¹	0.5 to 5	0.8727	0.0048	0.1795	0.0195	0.22
Drinking Water	0112	6285	77-47-4	Hexachlorocyclopentadiene ¹	2 to 20	0.8508	0.0882	0.2716	0.1073	0.49
Drinking Water	0012	7120	58-89-9	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) ¹	0.2 to 2.5		±45% fixed acceptance limit			0.11
Drinking Water	0013	7810	72-43-5	Methoxychlor ¹	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water		7835	51218-45-2	Metolachlor	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water		7845	21087-64-9	Metribuzin	2 to 20		±50% fixed acceptance limit			1.0
Drinking Water	0259	8045	1918-16-7	Propachlor (Ramrod)	1 to 10		±45% fixed acceptance limit			0.55
Drinking Water	0113	8125	122-34-9	Simazine ¹	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water	0014	8250	8001-35-2	Toxaphene (Chlorinated Camphene) ¹	2 to 20		±45% fixed acceptance limit			1.1
Drinking Water	0244	8295	1582-09-8	Trifluralin (Treflan)	1 to 10		±45% fixed acceptance limit			0.55
Carbamates & Vydate					µg/L					µg/L
Drinking Water	0098	7010	116-06-3	Aldicarb (Temik)	15 to 100		±25% fixed acceptance limit			11
Drinking Water	0099	7015	1646-88-4	Aldicarb Sulfone	15 to 100		±25% fixed acceptance limit			11
Drinking Water	0100	7020	1646-87-3	Aldicarb Sulfoxide	15 to 80		±25% fixed acceptance limit			11
Drinking Water		7195	63-25-2	Carbaryl (Sevin)	15 to 100		±25% fixed acceptance limit			11
Drinking Water	0101	7205	1563-66-2	Carbofuran (Furaden) ¹	15 to 150		±45% fixed acceptance limit			8.3
Drinking Water		7710	16655-82-6	3-Hydroxycarbofuran	15 to 80		±20% fixed acceptance limit			12
Drinking Water	0245	7805	16752-77-5	Methomyl (Lannate)	15 to 100		±20% fixed acceptance limit			12
Drinking Water	0114	7940	23135-22-0	Oxamyl ¹	15 to 100		±25% fixed acceptance limit			11



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Chlorinated Acid Herbicides^{13d}					µg/L					µg/L
Drinking Water	0262	8505	50594-66-6	Acifluorfen	10 to 100		±50% fixed acceptance limit			5.0
Drinking Water	0015	8545	94-75-7	2,4-D ^{1,13e}	10 to 100		±50% fixed acceptance limit			5.0
Drinking Water		8560	94-82-6	2,4-DB	20 to 120		±50% fixed acceptance limit			10
Drinking Water	0115	8555	75-99-0	Dalapon ¹	10 to 100		±50% fixed acceptance limit			5.0
Drinking Water	0247	8595	1918-00-9	Dicamba	20 to 100		±50% fixed acceptance limit			10
Drinking Water	0116	8620	88-85-7	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) ¹	7 to 70	0.8480	0.8414	0.2628	0.0044	3.1
Drinking Water	0102	6605	87-86-5	Pentachlorophenol ¹	1 to 25		±50% fixed acceptance limit			0.50
Drinking Water	0117	8645	1918-02-1	Picloram ¹	10 to 100		±50% fixed acceptance limit			5.0
Drinking Water	0016	8650	93-72-1	Silvex (2,4,5-TP) ¹	10 to 100		±50% fixed acceptance limit			5.0
Drinking Water		8655	93-76-5	2,4,5-T	10 to 100		±50% fixed acceptance limit			5.0
Other Herbicides					µg/L					µg/L
Drinking Water	0137	9390	85-00-7	Diquat ^{1,13f}	8 to 40		±50% fixed acceptance limit			4.0
Drinking Water	0138	7525	145-73-3	Endothall ^{1,13g}	80 to 500		±50% fixed acceptance limit			40
Drinking Water	0139	9411	1071-83-6	Glyphosate ¹	375 to 800		±20% fixed acceptance limit			300
Haloacetic acids					µg/L					µg/L
Drinking Water	0250	9315	5589-96-8	Bromochloroacetic Acid	5 to 50		±40% fixed acceptance limit			3.0
Drinking Water	0157	9357	631-64-1	Dibromoacetic Acid ¹	5 to 50		±40% fixed acceptance limit			3.0
Drinking Water	0158	9360	79-43-6	Dichloroacetic Acid ¹	5 to 50		±40% fixed acceptance limit			3.0
Drinking Water	0160	9312	79-08-3	Bromoacetic acid ¹	5 to 50		±40% fixed acceptance limit			3.0
Drinking Water	0161	9336	79-11-8	Chloroacetic acid ¹	10 to 50		±40% fixed acceptance limit			6.0
Drinking Water	0162	9642	76-03-9	Trichloroacetic acid (TCAA) ¹	5 to 50		±40% fixed acceptance limit			3.0
Adipate/Phthalate					µg/L					µg/L
Drinking Water	0134	6062	70147-21-6	bis(2-Ethylhexyl)adipate ¹	8 to 50	0.9817	-0.4239	0.1250	1.4658	2.5
Drinking Water	0136	6065	117-81-7	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP) ¹	5 to 50	0.9216	1.3142	0.2049	0.7388	2.4
PCBs in Water²					µg/L					µg/L
Drinking Water	0118	9105	2051-24-3	Decachlorobiphenyl (BZ-209) ^{1,13h}	0.5 to 5		±100% fixed acceptance limit			0.05
Drinking Water		8872	NA	PCB Aroclor Identification			Correct identification of Aroclor examined			



TNI PT for Accreditation
Fields of Proficiency Testing with PTRLs
Drinking Water
Effective: October 1, 2020

Blue = New Analyte Magenta = Changes

Matrix	EPA Analyte Code	TNI Analyte Code	CAS Number	Analyte ²	Conc Range	Acceptance Criteria ^{3,4,5,6}				TNI PTRL ⁷
						a	b	c	d	
PAH					µg/L					µg/L
Drinking Water	0122	5580	50-32-8	Benzo(a)pyrene ¹	0.2 to 2.5	0.8471	-0.0040	0.1854	0.0547	0.02
Dioxin					pg/L					pg/L
Drinking Water	0252	9618	1746-01-6	2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) ¹	20 to 100	0.8642	1.4865	0.1392	1.1445	11

1) All analytes regulated under the US EPA's Safe Drinking Water Act must be spiked at non-zero assigned values, except when not required for evaluation in a supplemental PT study and when specified in the footnotes below.

2) One sample in every study, containing one Aroclor, selected at random from among the Aroclors listed (1016, 1221, 1232, 1242, 1248, 1254 or 1260) for the analysis of PCBs as decachlorobiphenyl.

3) The acceptance criteria found in 40 CFR Part 141 are incorporated herein by reference. Acceptance criteria for FoPTs not included in 40 CFR Part 141 are presented in this table. Acceptance limits are set at the Mean ± 2 SD.

Where the a, b, c and d factors are presented, Mean = a*T + b; SD = c*T + d where T is the assigned value.

Where only the c and d factors are presented, Mean = Robust Study Mean; SD = c*X + d where X is the Robust Study Mean.

Where no factors are presented (Study Mean ±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 (e.g., HPC) are based on the robust participant Mean and SD determined from each respective PT study, after outlier removal.

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) **TNI** Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing **TNI** 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. **TNI** 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.



TNI PT for Accreditation
Fields of Proficiency Testing with PTRLs
Drinking Water
Effective: October 1, 2020

Blue = New Analyte

Magenta = Changes

Matrix	EPA Analyte Code	TNI Analyte Code	CAS Number	Analyte ²	Conc Range a	Acceptance Criteria ^{3,4,5,6} b c	d	TNI PTRL ⁷
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8) The ten-sample set which is provided to the participant laboratories shall contain bacteria that produces the following results when analyzed:

Positive results for total coliforms, fecal coliforms and E.coli.

Positive results for total coliforms and negative results for fecal coliforms and E.coli.

Negative results for total coliforms, fecal coliforms and E.coli.

These limits are for Presence-Absence only.

9) The ten-sample set shall be assigned lot numbers and randomly composed of samples as follows:

Two to four samples containing an aerogenic strain of Escherichia which will ensure positive results for total coliforms, fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

Two to four samples containing an aerogenic strain of Enterobacter species and/or other microorganism which will ensure positive results for total coliforms and negative result for fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

One to two samples containing Pseudomonas species and/or other microorganism which will ensure negative results for total coliforms, fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

One to two samples which do not contain any microorganism which ensure negative results for total coliforms, fecal coliforms and E.coli. when analyzed by any of the USEPA approved methods.

10) Laboratories analyzing qualitative sample sets for more than one method in a particular study shall obtain a unique ten-sample set for each method reported as specified in Footnote 9.

11) These limits are for quantitative methods using membrane filtration (MF) or pour-plate (PP) techniques.

12) These limits are for quantitative methods using most probable number (MPN) techniques.

13) 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.



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Matrix	EPA Analyte Code	TNI Analyte Code	CAS Number	Analyte ²	Conc Range a	Acceptance Criteria ^{3,4,5,6} b c	d	TNI PTRL ⁷
				a) Design criteria for Mercury – 1:1 (mole:mole as Hg) Mercuric Oxide and Methyl Mercuric Chloride.				
				b) Design criteria for Cyanide (all forms) – uncomplexed, e.g., Potassium Cyanide.				
				c) Design criterion for Turbidity – Formazin is the source for Turbidity.				
				d) Design criteria for Chlorinated Acid Herbicides – should be supplied in the acid form of the target herbicide.				
				e) Design criteria for 2,4-D – should be at least half the butyl ester with the remainder in the acid form.				
				f) Design criteria for Diquat – Starting material is Diquat Dibromide Monohydrate as required in the method. All assigned values and reported values should be as Diquat.				
				g) Design criteria for Endothall – Starting material is Endothall Monohydrate as required in the method. All assigned values and reported values should be as Endothall.				
				h) Design criteria for Decachlorobiphenyl – The source of the Decachlorobiphenyl is one of the following Aroclors: 1016, 1221, 1232, 1242, 1248, 1254, 1260. The assigned value of the Decachlorobiphenyl is to be calculated by the provider from the concentration of the Aroclor used to prepare the sample according to Table 1 of the USEPA Method 508A.				
				i) Design criteria for Corrosivity (Langlier Index) – The assigned value is to be calculated based on the solution ionic strength as calculated from Total Filterable Residue.				
14)	Volatile Organic Compounds must contain all three Xylene isomers. The concentration range of o-Xylene and m&p-Xylene is 1-25 µg/L each.							