



NELAC PT for Accreditation
Fields of Proficiency Testing with PTRLs
Solid and Chemical Materials
Effective: July 24, 2017

Blue = New Analyte Magenta = Changes

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	
			Trace Metals	mg/kg					mg/kg
SOLIDS		1000	Aluminum	2500 to 25000	Study Mean		0.1307	293.1966	250
SOLIDS		1005	Antimony	80 to 300	Study Mean		0.4385	8.1700	8.0
SOLIDS		1010	Arsenic	40 to 400	Study Mean ± 30%				4.0
SOLIDS		1015	Barium	100 to 1000	Study Mean ± 25%				10
SOLIDS		1020	Beryllium	40 to 400	Study Mean ± 25%				4.0
SOLIDS		1025	Boron	80 to 800	Study Mean ± 40%				48
SOLIDS		1030	Cadmium	40 to 400	Study Mean ± 25%				4.0
SOLIDS		1035	Calcium	1500 to 25000	Study Mean		0.0730	87.3802	150
SOLIDS		1040	Chromium	40 to 400	Study Mean ± 30%				4.0
SOLIDS		1045	Chromium VI	40 to 300	Study Mean		0.1547	8.5460	4.0
SOLIDS		1050	Cobalt	40 to 400	Study Mean ± 25%				4.0
SOLIDS		1055	Copper	40 to 400	Study Mean ± 25%				4.0
SOLIDS		1070	Iron	5000 to 50000	Study Mean		0.1102	1500.6038	500
SOLIDS		1075	Lead	40 to 400	Study Mean		0.0791	1.9272	4.0
SOLIDS		1085	Magnesium	1200 to 25000	Study Mean		0.0685	134.2111	120
SOLIDS		1090	Manganese	100 to 2000	Study Mean		0.0639	6.3268	10
SOLIDS		1095	Mercury	1 to 35	Study Mean ± 40%				0.10
SOLIDS		1100	Molybdenum	30 to 300	Study Mean		0.0910	0.8106	3.0
SOLIDS		1105	Nickel	40 to 500	Study Mean ± 30%				4.0
SOLIDS		1125	Potassium	1400 to 25000	Study Mean		0.0878	98.8140	140
SOLIDS		1140	Selenium	40 to 400	Study Mean		0.0935	2.2902	4.0
SOLIDS		1150	Silver	20 to 100	Study Mean		0.0910	0.4587	2.0
SOLIDS		1155	Sodium	150 to 15000	Study Mean		0.1043	15.0068	15
SOLIDS		1160	Strontium	40 to 400	Study Mean		0.0846	0.9208	4.0
SOLIDS		1165	Thallium	40 to 400	Study Mean		0.0785	3.0637	4.0
SOLIDS		1175	Tin	50 to 250	Study Mean		0.1134	3.0560	5.0
SOLIDS		1185	Vanadium	40 to 400	Study Mean		0.0618	4.6801	4.0
SOLIDS		1190	Zinc	100 to 1000	Study Mean ± 30%				10



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					a	b	c	d	
			Minerals	mg/kg					mg/kg
SOLIDS		1540	Bromide	10 to 100	Study Mean		0.0848	0.3989	1.0
SOLIDS		1575	Chloride	200 to 1000	Study Mean		0.0892	5.3941	20
SOLIDS		1730	Fluoride	25 to 500	Study Mean		0.1781	2.0366	2.5
SOLIDS		1810	Nitrate as N	25 to 500	Study Mean		0.0676	2.4605	2.5
SOLIDS		2000	Sulfate	25 to 2000	Study Mean		0.1354	5.1265	2.5
			Nutrients	mg/kg					mg/kg
SOLIDS		1515	Ammonia as N	300 to 3000	Study Mean		0.0931	39.0256	30
SOLIDS		1795	Total Kjeldahl-Nitrogen	400 to 4000	Study Mean		0.1361	21.2081	40
SOLIDS		1910	Total Phosphorus	300 to 3000	Study Mean		0.2208	29.9538	30
			Misc Analytes	mg/kg					mg/kg
SOLIDS		1625	Corrosivity (pH)	2 to 12 units	± 0.6 units fixed acceptance limit				not applicable
SOLIDS		1645	Cyanide, total	20 to 200	Study Mean		0.1701	2.0819	2.0
SOLVENT		1780	Ignitability (Flashpoint)	100 to 200 °F	± 17 °F fixed acceptance limit				not applicable



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					a	b	c	d	
			Volatile Aromatics ¹	µg/kg					µg/kg
SOLIDS		4375	Benzene	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		4475	Chlorobenzene	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4610	1,2-Dichlorobenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4615	1,3-Dichlorobenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4620	1,4-Dichlorobenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4765	Ethylbenzene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		5005	Naphthalene	40 to 200	Assigned Value ±50% fixed acceptance limit				20
SOLIDS		5100	Styrene	40 to 200	Assigned Value ±35% fixed acceptance limit				26
SOLIDS		5140	Toluene	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		5155	1,2,4-Trichlorobenzene	40 to 200	Assigned Value ±60% fixed acceptance limit				16
SOLIDS		5260	Xylenes, total ⁸	40 to 400	Assigned Value ±45% fixed acceptance limit				22
			Volatile Halocarbons ¹	µg/kg					µg/kg
SOLIDS		4395	Bromodichloromethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4400	Bromoform	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		4455	Carbon tetrachloride	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4505	Chloroform	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4575	Dibromochloromethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	40 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4585	1,2-Dibromoethane (EDB)	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		4630	1,1-Dichloroethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4635	1,2-Dichloroethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4640	1,1-Dichloroethene	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4645	cis-1,2-Dichloroethene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4700	trans-1,2-Dichloroethene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4975	Dichloromethane (Methylene chloride)	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		4655	1,2-Dichloropropane	20 to 200	Assigned Value ±35% fixed acceptance limit				13
SOLIDS		4680	cis-1,3-Dichloropropene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		4685	trans-1,3-Dichloropropene	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		5105	1,1,1,2-Tetrachloroethane	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		5110	1,1,2,2-Tetrachloroethane	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		5115	Tetrachloroethene	20 to 200	Assigned Value ±50% fixed acceptance limit				10
SOLIDS		5160	1,1,1-Trichloroethane	20 to 200	Assigned Value ±45% fixed acceptance limit				11
SOLIDS		5165	1,1,2-Trichloroethane	20 to 200	Assigned Value ±30% fixed acceptance limit				14
SOLIDS		5170	Trichloroethene	20 to 200	Assigned Value ±40% fixed acceptance limit				12
SOLIDS		5180	1,2,3-Trichloropropane	20 to 200	Assigned Value ±50% fixed acceptance limit				12



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					a	b	c	d	
			Volatile Ketone/Ethers ¹	µg/kg					µg/kg
SOLIDS		4315	Acetone	200 to 1000	0.8050	15.8965	0.2255	11.6574	20
SOLIDS		4410	2-Butanone (Methyl ethyl ketone)	100 to 500	0.9457	-5.6053	0.1832	7.9158	10
SOLIDS		4860	2-Hexanone	100 to 500	Assigned Value ±50% fixed acceptance limit				50
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	100 to 500	Assigned Value ±50% fixed acceptance limit				50
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	20 to 200	Assigned Value ±40% fixed acceptance limit				12
			Medium Level Volatile Aromatics ¹	µg/kg					µg/kg
SOLIDS		4375	Benzene	1000 to 10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		4475	Chlorobenzene	1000 to 10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		4610	1,2-Dichlorobenzene	1000 to 10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		4615	1,3-Dichlorobenzene	1000 to 10000	1.0087	-3.5854	0.0610	72.1547	606
SOLIDS		4620	1,4-Dichlorobenzene	1000 to 10000	0.9814	78.8567	0.0672	45.0983	723
SOLIDS		4765	Ethylbenzene	1000 to 10000	Assigned Value ±30% fixed acceptance limit				700
SOLIDS		5005	Naphthalene	2000 to 10000	1.0092	-147.4204	0.0896	204.0207	721
SOLIDS		5100	Styrene	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		5140	Toluene	1000 to 10000	Assigned Value ±25% fixed acceptance limit				750
SOLIDS		5155	1,2,4-Trichlorobenzene	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		5260	Xylenes, total ⁸	2000 to 20000	Assigned Value ±30% fixed acceptance limit				700



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					a	b	c	d	
			Medium Level Volatile Halocarbons ¹	µg/kg					µg/kg
SOLIDS		4395	Bromodichloromethane	1000 to 10000	Assigned Value ±35% fixed acceptance limit				650
SOLIDS		4400	Bromoform	1000 to 10000	Assigned Value ±40% fixed acceptance limit				600
SOLIDS		4455	Carbon tetrachloride	1000 to 10000	0.9879	26.1250	0.1091	69.0570	480
SOLIDS		4505	Chloroform	1000 to 10000	Assigned Value ±30% fixed acceptance limit				700
SOLIDS		4575	Dibromochloromethane	1000 to 10000	Assigned Value ±30% fixed acceptance limit				700
SOLIDS		4570	1,2-Dibromo-3-chloropropane (DBCP)	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4585	1,2-Dibromoethane (EDB)	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4595	Dibromomethane	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4630	1,1-Dichloroethane	1000 to 10000	Assigned Value ±35% fixed acceptance limit				650
SOLIDS		4635	1,2-Dichloroethane	1500 to 10000	0.9960	32.3273	0.0711	81.3421	930
SOLIDS		4640	1,1-Dichloroethene	2000 to 10000	Assigned Value ±50% fixed acceptance limit				1000
SOLIDS		4645	cis-1,2-Dichloroethene	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4700	trans-1,2-Dichloroethene	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4975	Dichloromethane (Methylene chloride)	1000 to 10000	Assigned Value ±40% fixed acceptance limit				600
SOLIDS		4655	1,2-Dichloropropane	2000 to 10000	Assigned Value ±30% fixed acceptance limit				1400
SOLIDS		4680	cis-1,3-Dichloropropene	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		4685	trans-1,3-Dichloropropene	2000 to 10000	Assigned Value ±40% fixed acceptance limit				1200
SOLIDS		5105	1,1,1,2-Tetrachloroethane	1000 to 10000	0.9905	84.3577	0.0715	113.3756	520
SOLIDS		5110	1,1,2,2-Tetrachloroethane	1500 to 10000	0.9884	-45.8370	0.0927	188.2879	455
SOLIDS		5115	Tetrachloroethene	1000 to 10000	1.0045	93.5934	0.1125	4.6555	747
SOLIDS		5160	1,1,1-Trichloroethane	1000 to 10000	Assigned Value ±40% fixed acceptance limit				600
SOLIDS		5165	1,1,2-Trichloroethane	1000 to 10000	Assigned Value ±35% fixed acceptance limit				650
SOLIDS		5170	Trichloroethene	1000 to 10000	0.9971	67.2206	0.0840	56.3450	643
SOLIDS		5180	1,2,3-Trichloropropane	1500 to 10000	Assigned Value ±45% fixed acceptance limit				825
			Medium Level Volatile Ketone/Ethers ¹	µg/kg					µg/kg
SOLIDS		4315	Acetone	4000 to 20000	0.9105	-72.7923	0.2023	70.9627	929
SOLIDS		4410	2-Butanone (Methyl ethyl ketone)	4000 to 20000	0.8688	472.7627	0.1877	295.7230	808
SOLIDS		4860	2-Hexanone	4000 to 20000	Assigned Value ±50% fixed acceptance limit				2000
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	4000 to 20000	Assigned Value ±50% fixed acceptance limit				2000
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	2000 to 10000	Assigned Value ±30% fixed acceptance limit				1400
			Volatile Petroleum Hydrocarbons	mg/kg					mg/kg
SOLIDS		9408	Gasoline Range Organics (GRO) ⁹	100 to 2000	Study Mean	0.1900	74.9808	10	



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					a	b	c	d	
			Base/Neutrals ¹	µg/kg					µg/kg
SOLIDS		5500	Acenaphthene	1000 to 12000	Study Mean		0.1967	2.4526	100
SOLIDS		5505	Acenaphthylene	1000 to 12000	Study Mean		0.2110	0.8053	100
SOLIDS		5555	Anthracene	1000 to 12000	Study Mean		0.1677	68.9191	100
SOLIDS		5575	Benzo(a)anthracene	1000 to 12000	Study Mean		0.1671	20.6877	100
SOLIDS		5585	Benzo(b)fluoranthene	1000 to 12000	Study Mean		0.1929	23.6955	100
SOLIDS		5600	Benzo(k)fluoranthene	1000 to 12000	Study Mean		0.1966	5.3583	100
SOLIDS		5590	Benzo(g,h,i)perylene	1000 to 12000	Study Mean		0.1958	26.7399	100
SOLIDS		5580	Benzo(a)pyrene	1000 to 12000	Study Mean		0.1801	66.9233	100
SOLIDS		5660	4-Bromophenyl-phenylether	1500 to 15000	Study Mean		0.1949	25.3431	150
SOLIDS		5670	Butylbenzylphthalate	1000 to 12000	Study Mean		0.2095	16.2887	100
SOLIDS		5765	bis(2-Chloroethyl)ether	1500 to 15000	Study Mean		0.2158	173.8570	150
SOLIDS		5760	bis(2-Chloroethoxy)methane	1000 to 12000	Study Mean		0.1953	88.5249	100
SOLIDS		4659	2,2'-Oxybis(1-Chloropropane) ¹³	1500 to 15000	Study Mean		0.2515	26.3474	150
SOLIDS		5795	2-Chloronaphthalene	1000 to 12000	Study Mean		0.2181	6.8913	100
SOLIDS		5825	4-Chlorophenyl-phenylether	1000 to 12000	Study Mean		0.2077	5.9161	100
SOLIDS		5855	Chrysene	1000 to 12000	Study Mean		0.1626	29.1501	100
SOLIDS		5895	Dibenz(a,h)anthracene	1000 to 12000	Study Mean		0.1868	81.9994	100
SOLIDS		5905	Dibenzofuran	1500 to 15000	Study Mean		0.1772	34.8698	150
SOLIDS		4610	1,2-Dichlorobenzene	1500 to 15000	Study Mean		0.2786	81.9879	150
SOLIDS		4615	1,3-Dichlorobenzene	1500 to 15000	Study Mean		0.3292	69.8039	150
SOLIDS		4620	1,4-Dichlorobenzene	1500 to 15000	Study Mean		0.3249	28.1719	150
SOLIDS		6070	Diethylphthalate	1000 to 12000	Study Mean		0.1952	14.2186	100
SOLIDS		6135	Dimethylphthalate	1000 to 12000	Study Mean		0.1898	37.0036	100
SOLIDS		5925	Di-n-butylphthalate	1000 to 12000	Study Mean		0.2232	24.5306	100
SOLIDS		6185	2,4-Dinitrotoluene	1500 to 15000	Study Mean		0.1901	59.3569	150
SOLIDS		6190	2,6-Dinitrotoluene	1500 to 15000	Study Mean		0.1804	16.8136	150
SOLIDS		6200	Di-n-octylphthalate	1000 to 12000	Study Mean		0.2306	52.0201	100
SOLIDS		6065	bis(2-Ethylhexyl)phthalate	1500 to 15000	Study Mean		0.2109	100.6288	150
SOLIDS		6265	Fluoranthene	1000 to 12000	Study Mean		0.1909	27.4902	100
SOLIDS		6270	Fluorene	1000 to 12000	Study Mean		0.1714	57.1721	100
SOLIDS		4840	Hexachloroethane	1500 to 15000	Study Mean		0.3365	0.7453	150
SOLIDS		6275	Hexachlorobenzene	1500 to 15000	Study Mean		0.1713	4.7899	150
SOLIDS		4835	Hexachlorobutadiene	1500 to 15000	Study Mean		0.2252	61.2677	150
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	1000 to 12000	Study Mean		0.2577	6.0686	100



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					a	b	c	d	
			Base/Neutrals cont' ¹	µg/kg					µg/kg
SOLIDS		6320	Isophorone	1500 to 15000	Study Mean		0.2107	52.3126	150
SOLIDS		6385	2-Methylnaphthalene	1000 to 12000	Study Mean		0.2027	28.7219	100
SOLIDS		5005	Naphthalene	1000 to 12000	Study Mean		0.2408	35.4651	100
SOLIDS		5015	Nitrobenzene	1500 to 15000	Study Mean		0.2129	84.7934	150
SOLIDS		6545	N-Nitroso-di-n-propylamine	1500 to 15000	Study Mean		0.2463	5.3389	150
SOLIDS		6615	Phenanthrene	1000 to 12000	Study Mean		0.1801	5.2498	100
SOLIDS		6665	Pyrene	1000 to 12000	Study Mean		0.2025	15.1287	100
SOLIDS		5155	1,2,4-Trichlorobenzene	1500 to 15000	Study Mean		0.1952	170.2017	150
			Acids ¹	µg/kg					µg/kg
SOLIDS		5700	4-Chloro-3-methylphenol	1500 to 15000	Study Mean		0.1989	52.6198	150
SOLIDS		5800	2-Chlorophenol	1500 to 15000	Study Mean		0.2418	15.4376	150
SOLIDS		6000	2,4-Dichlorophenol	1500 to 15000	Study Mean		0.2092	70.7176	150
SOLIDS		6400	2-Methylphenol (o-Cresol)	3000 to 15000	Study Mean		0.2419	113.6401	300
SOLIDS		6410	4-Methylphenol (p-Cresol) ¹⁰	3000 to 15000	Study Mean ±3SD				300
SOLIDS		6490	2-Nitrophenol	3000 to 15000	Study Mean		0.2513	18.3228	300
SOLIDS		6500	4-Nitrophenol	3000 to 15000	Study Mean		0.3639	171.2300	300
SOLIDS		6625	Phenol	1500 to 15000	Study Mean		0.2381	26.3795	150
SOLIDS		6605	Pentachlorophenol	3000 to 15000	Study Mean		0.2714	282.8578	300
SOLIDS		6835	2,4,5-Trichlorophenol	1500 to 15000	Study Mean		0.2309	17.6405	150
SOLIDS		6840	2,4,6-Trichlorophenol	1500 to 15000	Study Mean		0.2031	72.3886	150
			PCBs ²	mg/kg					mg/kg
SOLIDS		8880	Aroclor 1016	1 to 50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8885	Aroclor 1221	1 to 50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8890	Aroclor 1232	1 to 50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8895	Aroclor 1242	1 to 50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8900	Aroclor 1248	1 to 50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8905	Aroclor 1254	1 to 50	Study Mean		0.2239	0.1196	0.1
SOLIDS		8910	Aroclor 1260	1 to 50	Study Mean		0.2239	0.1196	0.1
			PCBs in Oil ²	mg/kg					mg/kg
OIL		8880	Aroclor 1016	10 to 50	0.7712	1.1019	0.1919	0.7331	0.86
OIL		8885	Aroclor 1221	12 to 50	0.7712	1.1019	0.1919	0.7331	1.25
OIL		8890	Aroclor 1232	12 to 50	0.7712	1.1019	0.1919	0.7331	1.25
OIL		8895	Aroclor 1242	10 to 50	0.7712	1.1019	0.1919	0.7331	0.86
OIL		8900	Aroclor 1248	12 to 50	0.7712	1.1019	0.1919	0.7331	1.25
OIL	0100	8905	Aroclor 1254	10 to 50	0.7712	1.1019	0.1919	0.7331	0.86
OIL	0101	8910	Aroclor 1260	10 to 50	0.7712	1.1019	0.1919	0.7331	0.86



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					a	b	c	d	
			Organochlorine Pesticides ¹	µg/kg					µg/kg
SOLIDS		7025	Aldrin	50 to 500	Study Mean		0.2024	1.8529	5.0
SOLIDS		7110	alpha-BHC	50 to 500	Study Mean		0.2004	3.1776	5.0
SOLIDS		7115	beta-BHC	50 to 500	Study Mean		0.1788	9.4062	5.0
SOLIDS		7105	delta-BHC	50 to 500	Study Mean		0.2041	5.5821	5.0
SOLIDS		7120	gamma-BHC(Lindane)	50 to 500	Study Mean		0.1955	6.0037	5.0
SOLIDS		7240	alpha-Chlordane	50 to 500	Study Mean		0.1876	0.6823	5.0
SOLIDS		7245	gamma-Chlordane	50 to 500	Study Mean		0.1666	2.0584	5.0
SOLIDS		7250	Chlordane, Technical	100 to 1000	Study Mean		0.2357	1.1633	10
SOLIDS		7355	4,4'-DDD	50 to 500	Study Mean		0.1697	8.1705	5.0
SOLIDS		7360	4,4'-DDE	50 to 500	Study Mean		0.1818	4.4461	5.0
SOLIDS		7365	4,4'-DDT	50 to 500	Study Mean		0.2243	2.6522	5.0
SOLIDS		7470	Dieldrin	50 to 500	Study Mean		0.1672	4.0365	5.0
SOLIDS		7510	Endosulfan I	50 to 500	Study Mean		0.1824	5.0749	5.0
SOLIDS		7515	Endosulfan II	50 to 500	Study Mean		0.2026	3.2251	5.0
SOLIDS		7520	Endosulfan sulfate	50 to 500	Study Mean		0.2361	2.5159	5.0
SOLIDS		7540	Endrin	50 to 500	Study Mean		0.1435	7.1706	5.0
SOLIDS		7530	Endrin aldehyde	50 to 500	Study Mean		0.2309	10.0975	5.0
SOLIDS		7535	Endrin ketone	50 to 500	Study Mean		0.2190	2.7268	5.0
SOLIDS		7685	Heptachlor	50 to 500	Study Mean		0.1911	2.5619	5.0
SOLIDS		7690	Heptachlor epoxide (beta)	50 to 500	Study Mean		0.1786	2.4451	5.0
SOLIDS		7810	Methoxychlor	50 to 500	Study Mean		0.2696	6.0889	5.0
SOLIDS		8250	Toxaphene	200 to 2000	Study Mean ±3SD				20
			Herbicides ¹	µg/kg					µg/kg
SOLIDS		8545	2,4-D	100 to 1000	Study Mean ±3SD				10
SOLIDS		8560	2,4-DB	100 to 1000	Study Mean ±3SD				10
SOLIDS		8595	Dicamba	100 to 1000	Study Mean ±3SD				10
SOLIDS		8620	Dinoseb	100 to 1000	Study Mean ±3SD				10
SOLIDS		6605	Pentachlorophenol	100 to 1000	Study Mean ±3SD				10
SOLIDS		8655	2,4,5-T	100 to 1000	Study Mean ±3SD				10
SOLIDS		8650	2,4,5-TP (Silvex)	100 to 1000	Study Mean ±3SD				10



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Effective: July 24, 2017

Blue = New Analyte Magenta = Changes

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	
			Petroleum Hydrocarbons	mg/kg					mg/kg
SOLIDS		9369	Diesel Range Organics (DRO) ¹¹	300 to 3000	Study Mean		0.2097	7.5527	30
SOLIDS		1803	n-Hexane Extractable Material (O&G) ¹²	300 to 3000	Study Mean		0.1567	88.0394	30
			Low Level Polyaromatic Hydrocarbons (PAHs) ¹	µg/kg					µg/kg
SOLIDS		5500	Acenaphthene	100 to 1000	Study Mean		0.2258	2.4018	15
SOLIDS		5505	Acenaphthylene	150 to 1000	Study Mean		0.3181	4.1175	15
SOLIDS		5555	Anthracene	100 to 1000	Study Mean		0.1839	3.1705	10
SOLIDS		5575	Benzo(a)anthracene	50 to 500	Study Mean		0.1562	2.8639	5.0
SOLIDS		5585	Benzo(b)fluoranthene	50 to 500	Study Mean		0.1370	3.1001	5.0
SOLIDS		5600	Benzo(k)fluoranthene	50 to 500	Study Mean		0.1300	5.4343	5.0
SOLIDS		5590	Benzo(g,h,i)perylene	50 to 500	Study Mean		0.1724	4.5522	10
SOLIDS		5580	Benzo(a)pyrene	50 to 500	Study Mean		0.1771	3.7794	5.0
SOLIDS		5855	Chrysene	50 to 500	Study Mean		0.1884	0.0425	5.0
SOLIDS		5895	Dibenz(a,h)anthracene	50 to 500	Study Mean		0.1591	2.6430	5.0
SOLIDS		6265	Fluoranthene	50 to 500	Study Mean		0.1529	3.9780	10
SOLIDS		6270	Fluorene	50 to 500	Study Mean		0.2169	2.2266	5.0
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	50 to 500	Study Mean		0.1330	6.2268	5.0
SOLIDS		5005	Naphthalene	150 to 1000	Study Mean		0.3079	1.5325	15
SOLIDS		6615	Phenanthrene	100 to 1000	Study Mean		0.1921	0.1970	10
SOLIDS		6665	Pyrene	50 to 500	Study Mean		0.1816	2.1374	5.0



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					a	b	c	d	

1) For volatiles, base/neutrals, acids, organochlorine pesticides, herbicides and low level PAHs standards, 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 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 Standard Deviations (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 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.)

4) If the lower acceptance limit generated using the criteria contained in this table is less than 10% of the assigned value or the PTRL, the lower acceptance limits are set at 10% of the assigned value or the PTRL whichever is higher.

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 except where fixed limits are used.

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 except where fixed limits are used.

7) NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. NELAC PTRLs are also provided as guidance to PT Providers. At a minimum for all analytes with an assigned value equal to <PTRL, the PT Provider should verify that the PT sample does not contain the analyte at a concentration greater than or equal to the PTRL.

8) Volatiles Aromatics must contain all three Xylene isomers. The concentration range of o-Xylene and m&p-Xylene is 20-200 ug/kg or 1000-10000 (Medium Level) each.

9) 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.

10) Laboratories seeking to report data for Solid and Chemical Material analyte 4-Methylphenol or the coeluting isomer pair of 3-Methylphenol and 4-Methylphenol must report the data as 4-Methylphenol.

11) Diesel Range Organics (DRO) per solvent extraction followed by chromatographic analysis. DRO is defined as the carbon range between n-C₁₀ and n-C₂₈.



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					a	b	c	d	
			12) n-Hexane Extractable Material (HEM) per solvent extraction followed by gravimetric or infrared spectrometric analysis (Oil & Grease).						
			13) Also known as Bis(2-chloro-1-methylethyl) Ether, formerly known as Bis(2-chloroisopropyl) Ether.						