

**NELAC PT for Accreditation**  
**Fields of Proficiency Testing with PTRLs**  
**Solid and Chemical Materials**  
**Effective July 1, 2007**

Matrix	EPA Analyte Code	NELAC Analyte Code	Analyte <sup>1,2</sup>	Conc Range <sup>1</sup>	Acceptance Criteria <sup>3,4,5,6</sup>				NELAC PTRL <sup>7</sup>
					a	b	c	d	
			<b>Trace Metals</b>	mg/kg					mg/kg
SOLIDS		1000	Aluminum	1000 to 25000	Study Mean		0.1082	753.6118	100
SOLIDS		1005	Antimony	80 to 300	Study Mean		0.4385	8.1700	8.0
SOLIDS		1010	Arsenic	40 to 400	Study Mean		0.0915	1.0653	4.0
SOLIDS		1015	Barium	100 to 1000	Study Mean		0.0823	1.3346	10
SOLIDS		1020	Beryllium	40 to 400	Study Mean		0.0782	0.6438	3.0
SOLIDS		1030	Cadmium	40 to 400	Study Mean		0.0884	0.0629	4.0
SOLIDS		1035	Calcium	1500 to 25000	Study Mean		0.0730	87.3802	150
SOLIDS		1040	Chromium	40 to 400	Study Mean		0.0937	0.8163	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		0.0851	0.0292	3.0
SOLIDS		1055	Copper	40 to 400	Study Mean		0.0770	0.8423	4.0
SOLIDS		1070	Iron	1000 to 50000	Study Mean		0.1102	1500.6038	100
SOLIDS		1075	Lead	40 to 400	Study Mean		0.0725	2.4410	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		0.1615	0.0077	0.10
SOLIDS		1100	Molybdenum	30 to 300	Study Mean		0.0893	1.1242	3.0
SOLIDS		1105	Nickel	40 to 500	Study Mean		0.0819	1.0454	4.0
SOLIDS		1125	Potassium	1400 to 25000	Study Mean		0.0938	92.7318	140
SOLIDS		1140	Selenium	40 to 400	Study Mean		0.0935	2.2902	4.0
SOLIDS		1150	Silver	20 to 100	Study Mean		0.1047	0.3423	2.0
SOLIDS		1155	Sodium	150 to 15000	Study Mean		0.1028	30.5312	15
SOLIDS		1160	Strontium	40 to 400	Study Mean		0.0961	0.2863	4.0
SOLIDS		1165	Thallium	40 to 400	Study Mean		0.0961	1.4134	4.0
SOLIDS		1175	Tin	75 to 250	Study Mean		0.1134	3.0560	7.5
SOLIDS		1185	Vanadium	40 to 400	Study Mean		0.0624	5.2391	4.0
SOLIDS		1190	Zinc	100 to 1000	Study Mean		0.0823	3.6814	10
			<b>Misc Analytes</b>	mg/kg					mg/kg
SOLIDS		1625	Corrosivity (pH)	2 to 12 units	± 0.6 units fixed acceptance limit				not applicable
SOLIDS		1635	Cyanide, total	5 to 100	Study Mean ±3SD				1
SOLVENT		1780	Ignitability (Flashpoint)	100 to 200 °F	± 17 °F fixed acceptance limit				not applicable

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					a	b	c	d	
			<b>Volatile Aromatics<sup>1</sup></b>	$\mu\text{g/kg}$					$\mu\text{g/kg}$
SOLIDS		4375	Benzene	20 to 200	0.9843	-0.0327	0.1213	0.7969	10
SOLIDS		4610	1,2-Dichlorobenzene	20 to 200	0.9478	0.0184	0.1525	0.3201	9.0
SOLIDS		4615	1,3-Dichlorobenzene	20 to 200	0.9433	-1.4720	0.1774	0.5523	5.0
SOLIDS		4620	1,4-Dichlorobenzene	20 to 200	0.8787	0.3763	0.1785	0.0606	7.0
SOLIDS		4765	Ethylbenzene	20 to 200	0.9855	0.9188	0.1372	0.9866	9.0
SOLIDS		5005	Naphthalene	40 to 200	Study Mean $\pm$ 3SD				10
SOLIDS		5140	Toluene	20 to 200	0.9904	-0.0276	0.1360	0.2781	11
SOLIDS		5260	Xylenes, total <sup>8</sup>	40 to 400	0.9759	1.1119	0.1573	1.2105	18
			<b>Volatile Halocarbons<sup>1</sup></b>	$\mu\text{g/kg}$					$\mu\text{g/kg}$
SOLIDS		4395	Bromodichloromethane	20 to 200	1.0230	-0.8783	0.1138	0.9049	10
SOLIDS		4400	Bromoform	20 to 200	0.9970	-0.2793	0.1610	0.2331	9.3
SOLIDS		4455	Carbon tetrachloride	20 to 200	0.9788	0.3589	0.1641	0.0671	9.9
SOLIDS		4475	Chlorobenzene	20 to 200	0.9824	-1.0850	0.1352	0.1644	10
SOLIDS		4505	Chloroform	20 to 200	0.9977	0.2795	0.1277	0.4518	11
SOLIDS		4575	Dibromochloromethane	20 to 200	0.9933	-0.0908	0.1210	0.8668	9.9
SOLIDS		4630	1,1-Dichloroethane	20 to 200	1.0044	0.0864	0.1432	0.3262	11
SOLIDS		4635	1,2-Dichloroethane	20 to 200	0.9702	1.6554	0.1329	0.2153	12
SOLIDS		4975	Dichloromethane (Methylene chloride)	20 to 200	0.9423	1.9720	0.1572	0.8097	9.0
SOLIDS		4655	1,2-Dichloropropane	20 to 200	0.9502	1.5066	0.1231	0.3127	12
SOLIDS		5105	1,1,1,2-Tetrachloroethane	20 to 200	0.9919	1.6156	0.1107	0.8555	12
SOLIDS		5110	1,1,2,2-Tetrachloroethane	20 to 200	0.9798	0.8429	0.1490	0.8794	8.9
SOLIDS		5115	Tetrachloroethene	20 to 200	0.9537	-0.7165	0.1658	0.0414	8.3
SOLIDS		5155	1,2,4-Trichlorobenzene	40 to 200	Study Mean $\pm$ 3SD				10
SOLIDS		5160	1,1,1-Trichloroethane	20 to 200	1.0123	-1.7849	0.1404	0.3598	9.0
SOLIDS		5165	1,1,2-Trichloroethane	20 to 200	0.9589	2.7115	0.1285	0.3804	13
SOLIDS		5170	Trichloroethene	20 to 200	0.9711	-0.1873	0.1506	0.1712	10
SOLIDS		5180	1,2,3-Trichloropropane	40 to 200	Study Mean $\pm$ 3SD				10
			<b>Volatile Ketone/Ethers<sup>1</sup></b>	$\mu\text{g/kg}$					$\mu\text{g/kg}$
SOLIDS		4315	Acetone	160 to 400	Study Mean $\pm$ 3SD				40
SOLIDS		4410	2-Butanone (Methyl ethyl ketone)	160 to 400	Study Mean $\pm$ 3SD				40
SOLIDS		4995	4-Methyl-2-pentanone (MIBK)	80 to 400	0.9389	1.6739	0.1594	2.1583	32
SOLIDS		5000	Methyl-tert-butyl ether (MTBE)	20 to 200	0.9175	4.5363	0.1633	1.7722	7.8

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					a	b	c	d	
			<b>Medium Level Volatile Aromatics<sup>1</sup></b>	<b>µg/kg</b>					<b>µg/kg</b>
SOLIDS	4375		Benzene	1000 to 10000	1.0144	-23.1327	0.0910	20.8707	656
SOLIDS	4610		1,2-Dichlorobenzene	1000 to 10000	1.0058	33.2037	0.0835	56.7766	618
SOLIDS	4615		1,3-Dichlorobenzene	1000 to 10000	0.9994	68.8728	0.0807	108.8153	500
SOLIDS	4620		1,4-Dichlorobenzene	1000 to 10000	0.9796	84.9657	0.0741	82.1266	596
SOLIDS	4765		Ethylbenzene	1000 to 10000	1.0062	72.8042	0.1069	20.5270	697
SOLIDS	5005		Naphthalene	2000 to 10000	Study Mean ±3SD				500
SOLIDS	5140		Toluene	1000 to 10000	1.0099	-3.1595	0.0985	15.5403	665
SOLIDS	5260		Xylenes, total <sup>8</sup>	2000 to 20000	1.0208	26.6333	0.0852	208.6440	931
			<b>Medium Level Volatile Halocarbons<sup>1</sup></b>	<b>µg/kg</b>					<b>µg/kg</b>
SOLIDS	4395		Bromodichloromethane	1000 to 10000	1.0554	-51.4544	0.1066	68.3365	479
SOLIDS	4400		Bromoform	1000 to 10000	1.0036	1.4468	0.0966	99.9464	415
SOLIDS	4455		Carbon tetrachloride	1000 to 10000	0.9879	26.1250	0.1091	69.0570	479
SOLIDS	4475		Chlorobenzene	1000 to 10000	0.9950	123.9983	0.0752	81.8833	648
SOLIDS	4505		Chloroform	1000 to 10000	0.9904	78.8032	0.0932	79.8174	550
SOLIDS	4575		Dibromochloromethane	1000 to 10000	0.9616	108.0123	0.0993	43.3661	642
SOLIDS	4595		Dibromomethane	2000 to 10000	Study Mean ±3SD				500
SOLIDS	4630		1,1-Dichloroethane	1000 to 10000	1.0141	46.0177	0.1187	9.3983	676
SOLIDS	4635		1,2-Dichloroethane	1500 to 10000	0.9833	197.4423	0.0590	248.0448	663
SOLIDS	4975		Dichloromethane (Methylene chloride)	1000 to 10000	0.9750	45.6827	0.1353	59.8427	435
SOLIDS	4655		1,2-Dichloropropane	2000 to 10000	Study Mean ±3SD				500
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	1.0083	36.6090	0.1108	56.3068	543
SOLIDS	5155		1,2,4-Trichlorobenzene	2000 to 10000	Study Mean ±3SD				500
SOLIDS	5160		1,1,1-Trichloroethane	1000 to 10000	1.0197	-56.4801	0.0837	60.6064	530
SOLIDS	5165		1,1,2-Trichloroethane	1000 to 10000	0.9983	47.7354	0.1018	2.8755	732
SOLIDS	5170		Trichloroethene	1000 to 10000	0.9890	161.3820	0.0939	76.8331	638
SOLIDS	5180		1,2,3-Trichloropropane	1500 to 10000	0.9225	230.3408	0.1215	220.1008	407
			<b>Medium Level Volatile Ketone/Ethers<sup>1</sup></b>	<b>µg/kg</b>					<b>µg/kg</b>
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	809
SOLIDS	4995		4-Methyl-2-pentanone (MIBK)	4000 to 20000	0.9537	-38.8138	0.1005	313.1912	1630
SOLIDS	5000		Methyl-tert-butyl ether (MTBE)	2000 to 10000	Study Mean ±3SD				500

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					a	b	c	d	
			<b>Base/Neutrals<sup>1</sup></b>	<b>µg/kg</b>					<b>µg/kg</b>
SOLIDS		5500	Acenaphthene	1000 to 12000	Study Mean		0.1939	82.0756	200
SOLIDS		5505	Acenaphthylene	1000 to 12000	Study Mean		0.2146	52.0258	200
SOLIDS		5555	Anthracene	1000 to 12000	Study Mean		0.2128	52.3606	200
SOLIDS		5575	Benzo(a)anthracene	1000 to 12000	Study Mean		0.1849	46.0241	200
SOLIDS		5585	Benzo(b)fluoranthene	1000 to 12000	Study Mean		0.2067	52.9500	200
SOLIDS		5600	Benzo(k)fluoranthene	1000 to 12000	Study Mean		0.2151	10.4830	200
SOLIDS		5590	Benzo(g,h,i)perylene	1000 to 12000	Study Mean		0.2267	48.8759	200
SOLIDS		5580	Benzo(a)pyrene	1000 to 12000	Study Mean		0.2302	4.8021	200
SOLIDS		5660	4-Bromophenyl-phenylether	1500 to 15000	Study Mean		0.2017	11.8630	300
SOLIDS		5670	Butylbenzylphthalate	1500 to 15000	Study Mean		0.2391	6.4663	300
SOLIDS		5760	bis(2-Chloroethoxy)methane	1500 to 15000	Study Mean		0.2273	63.6276	300
SOLIDS		5780	bis(2-Chloroisopropyl)ether	1500 to 15000	Study Mean		0.2525	76.2913	300
SOLIDS		5795	2-Chloronaphthalene	1000 to 10000	Study Mean		0.2180	50.7155	200
SOLIDS		5825	4-Chlorophenyl-phenylether	1500 to 15000	Study Mean		0.2151	1.3807	300
SOLIDS		5855	Chrysene	1000 to 12000	Study Mean		0.2101	6.5663	200
SOLIDS		5895	Dibenz(a,h)anthracene	1000 to 12000	Study Mean		0.1827	143.3845	200
SOLIDS		5905	Dibenzofuran	1500 to 15000	Study Mean		0.2144	0.1463	300
SOLIDS		4610	1,2-Dichlorobenzene <sup>9</sup>	1500 to 15000	Study Mean		0.2786	81.9879	300
SOLIDS		4615	1,3-Dichlorobenzene <sup>9</sup>	1500 to 15000	Study Mean ±3SD				300
SOLIDS		4620	1,4-Dichlorobenzene <sup>9</sup>	1500 to 15000	Study Mean ±3SD				300
SOLIDS		6070	Diethylphthalate	1500 to 15000	Study Mean		0.2275	72.8630	300
SOLIDS		6135	Dimethylphthalate	1500 to 15000	Study Mean		0.1905	111.0505	300
SOLIDS		5925	Di-n-butylphthalate	1500 to 15000	Study Mean		0.2134	119.6955	300
SOLIDS		6185	2,4-Dinitrotoluene	1500 to 15000	Study Mean		0.2227	149.6818	300
SOLIDS		6190	2,6-Dinitrotoluene	1500 to 15000	Study Mean		0.1778	110.7244	300
SOLIDS		6200	Di-n-octylphthalate	1500 to 15000	Study Mean		0.2694	5.8412	300
SOLIDS		6255	bis(2-Ethylhexyl)phthalate	1500 to 15000	Study Mean		0.2109	100.6288	300
SOLIDS		6265	Fluoranthene	1000 to 12000	Study Mean		0.1909	27.4902	200
SOLIDS		6270	Fluorene	1000 to 12000	Study Mean		0.1766	94.1915	200
SOLIDS		6275	Hexachlorobenzene	1500 to 15000	Study Mean		0.1964	22.0540	300
SOLIDS		4835	Hexachlorobutadiene	1500 to 15000	Study Mean		0.2462	56.7559	300
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	1000 to 12000	Study Mean		0.2932	26.1594	200
SOLIDS		5005	Naphthalene	1000 to 12000	Study Mean		0.2202	62.1009	200
SOLIDS		5015	Nitrobenzene	1500 to 15000	Study Mean		0.2248	129.9507	300
SOLIDS		6545	N-Nitroso-di-n-propylamine	1500 to 15000	Study Mean		0.2547	131.2031	300
SOLIDS		6615	Phenanthrene	1000 to 12000	Study Mean		0.1792	84.2501	200
SOLIDS		6665	Pyrene	1000 to 12000	Study Mean		0.2025	15.1287	200
SOLIDS		5155	1,2,4-Trichlorobenzene	1500 to 15000	Study Mean		0.2316	64.0672	300

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						a	b	c	d	
			<b>Acids<sup>1</sup></b>							
				µg/kg						µg/kg
SOLIDS		5700	4-Chloro-3-methylphenol	1500	to 15000	Study Mean		0.1750	190.6510	300
SOLIDS		5800	2-Chlorophenol	1500	to 15000	Study Mean		0.2278	113.9250	300
SOLIDS		6000	2,4-Dichlorophenol	1500	to 15000	Study Mean		0.2247	128.6393	300
SOLIDS		6400	2-Methylphenol (o-Cresol)	3000	to 15000	Study Mean		0.2519	144.2852	600
SOLIDS		6490	2-Nitrophenol	3000	to 15000	Study Mean		0.2552	113.0546	600
SOLIDS		6500	4-Nitrophenol	3000	to 15000	Study Mean		0.3639	171.2300	600
SOLIDS		6625	Phenol	1500	to 15000	Study Mean		0.2844	6.5466	300
SOLIDS		6605	Pentachlorophenol	3000	to 15000	Study Mean		0.2714	282.8578	600
SOLIDS		6835	2,4,5-Trichlorophenol	1500	to 15000	Study Mean		0.2530	36.2289	300
SOLIDS		6840	2,4,6-Trichlorophenol	1500	to 15000	Study Mean		0.2110	136.9847	300
			<b>PCBs<sup>2</sup></b>							
				mg/kg						mg/kg
SOLIDS		8880	Aroclor 1016	1	to 50	Study Mean		0.2239	0.1196	0.2
SOLIDS		8885	Aroclor 1221	1	to 50	Study Mean		0.2239	0.1196	0.2
SOLIDS		8890	Aroclor 1232	1	to 50	Study Mean		0.2239	0.1196	0.2
SOLIDS		8895	Aroclor 1242	1	to 50	Study Mean		0.2239	0.1196	0.2
SOLIDS		8900	Aroclor 1248	1	to 50	Study Mean		0.2239	0.1196	0.2
SOLIDS		8905	Aroclor 1254	1	to 50	Study Mean		0.2239	0.1196	0.2
SOLIDS		8910	Aroclor 1260	1	to 50	Study Mean		0.2239	0.1196	0.2
			<b>PCBs in Oil<sup>2</sup></b>							
				mg/kg						mg/kg
OIL		8880	Aroclor 1016	17	to 50	0.7208	1.6866	0.1569	1.4646	1.7
OIL		8895	Aroclor 1242	17	to 50	0.7208	1.6866	0.1569	1.4646	1.7
OIL	0100	8905	Aroclor 1254	16	to 50	0.7936	0.5516	0.1759	1.6115	1.6
OIL	0101	8910	Aroclor 1260	12	to 50	0.7803	0.5911	0.2019	0.1025	1.2

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					a	b	c	d	
			<b>Pesticides<sup>1</sup></b>	$\mu\text{g/kg}$					$\mu\text{g/kg}$
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		0.2354	4.2243	5.0
SOLIDS		7105	delta-BHC	50 to 500	Study Mean		0.2126	4.8258	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		0.1925	1.2537	5.0
SOLIDS		7245	gamma-Chlordane	50 to 500	Study Mean		0.1575	3.5240	5.0
SOLIDS		7250	Chlordane, Technical	200 to 1000	Study Mean		0.2403	2.8078	20
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		0.1685	6.1922	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		0.2078	1.2126	5.0
SOLIDS		7690	Heptachlor epoxide (beta)	50 to 500	Study Mean		0.1893	1.3493	5.0
SOLIDS		7810	Methoxychlor	50 to 500	Study Mean		0.2696	6.0889	5.0
SOLIDS		8250	Toxaphene	200 to 2000	Study Mean $\pm$ 3SD				20
			<b>Herbicides<sup>1</sup></b>	$\mu\text{g/kg}$					$\mu\text{g/kg}$
SOLIDS		8545	2,4-D	100 to 1000	Study Mean $\pm$ 3SD				20
SOLIDS		8595	Dicamba	100 to 1000	Study Mean $\pm$ 3SD				20
SOLIDS		8655	2,4,5-T	100 to 1000	Study Mean $\pm$ 3SD				20
SOLIDS		8650	2,4,5-TP (Silvex)	100 to 1000	Study Mean $\pm$ 3SD				20

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					a	b	c	d	
			<b>Petroleum Hydrocarbons</b>	mg/kg					µg/kg
SOLIDS		9369	Diesel Range Organics (DRO) <sup>10</sup>	300 to 3000	Study Mean		0.1798	26.8656	60
SOLIDS		9408	Gasoline Range Organics (GRO) <sup>11</sup>	100 to 2000	Study Mean		0.1900	74.9808	20
SOLIDS		1860	n-Hexane Extractable Material (O&G) <sup>12</sup>	300 to 3000	Study Mean		0.1567	88.0394	60
SOLIDS		1935	non-Polar Extractable Material (TPH) <sup>13</sup>	300 to 3000	Study Mean		0.1567	88.0394	60
			<b>Low Level PAHs</b>	µg/kg					µg/kg
SOLIDS		5500	Acenaphthene	150 to 1000	Study Mean		0.2408	8.6652	30
SOLIDS		5505	Acenaphthylene	150 to 1000	Study Mean		0.3181	4.1175	30
SOLIDS		5555	Anthracene	100 to 1000	Study Mean		0.2614	2.3255	20
SOLIDS		5575	Benzo(a)anthracene	50 to 500	Study Mean		0.1945	1.6079	10
SOLIDS		5585	Benzo(b)fluoranthene	50 to 500	Study Mean		0.1674	3.4472	10
SOLIDS		5600	Benzo(k)fluoranthene	50 to 500	Study Mean		0.1991	1.2729	10
SOLIDS		5590	Benzo(g,h,i)perylene	100 to 1000	Study Mean		0.2950	0.1219	20
SOLIDS		5580	Benzo(a)pyrene	50 to 500	Study Mean		0.2387	1.8146	10
SOLIDS		5855	Chrysene	50 to 500	Study Mean		0.2397	0.4085	10
SOLIDS		5895	Dibenz(a,h)anthracene	50 to 500	Study Mean		0.2311	1.2126	10
SOLIDS		6265	Fluoranthene	100 to 1000	Study Mean		0.2082	0.8504	20
SOLIDS		6270	Fluorene	50 to 500	Study Mean		0.2226	6.2469	10
SOLIDS		6315	Indeno(1,2,3-cd)pyrene	50 to 500	Study Mean		0.2551	0.9514	10
SOLIDS		5005	Naphthalene	150 to 1000	Study Mean		0.3151	3.1969	30
SOLIDS		6615	Phenanthrene	100 to 1000	Study Mean		0.2136	0.6253	20
SOLIDS		6665	Pyrene	50 to 500	Study Mean		0.2116	1.4722	10

**NELAC PT for Accreditation**  
**Fields of Proficiency Testing with PTRLs**  
**Solid and Chemical Materials**  
**Effective July 1, 2007**

Matrix	EPA	NELAC	Analyte <sup>1,2</sup>	Conc Range <sup>1</sup>	Acceptance Criteria <sup>3,4,5,6</sup>				NELAC PTRL <sup>7</sup>
	Analyte Code	Analyte Code			a	b	c	d	
1) For volatiles, pesticides, base/neutrals, acids, herbicides and Low Level PAH PT samples, providers must include a minimum number of analytes using the same criteria described in the most recent NELAC Standard. Assigned values are chosen at random within the concentration ranges shown.									
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*T + b; SD = c*T + d where T is the assigned value. Where 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 $\pm$ 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) Dichlorobenzenes per solvent extraction and semivolatile analytical technologies.									
10) Diesel Range Organics (DRO) per solvent extraction followed by chromatographic analysis. DRO is defined as the carbon range between C <sub>10</sub> and C <sub>28</sub> .									
11) Gasoline Range Organics (GRO) per purge-and-trap extraction followed by chromatographic analysis. GRO is defined as the carbon range between C <sub>5</sub> and C <sub>10</sub> .									
12) n-Hexane Extractable Material (HEM) per solvent extraction followed by gravimetric or infrared spectrometric analysis (Oil & Grease).									
13) non-Polar Extractable Material per solvent extraction and Silica Gel Treated (SGT) followed by gravimetric or infrared spectrometric analysis (Total Petroleum Hydrocarbons).									