

Instructions for: **Soil Base/Neutrals and Acids (Cat # PT-BNA-SOIL)**

SCOPE AND APPLICATION

Wibby Environmental's Soil Base/Neutrals and Acids Proficiency Testing Standard is designed to be used for all USEPA Methods. You should be familiar with the method(s) before analyzing the standard. If you have any questions about the use of these standards, please contact Wibby Environmental Customer Service at 1-866-WibbyPT (866-942-2978).

SAMPLE PREPARATION AND ANALYSIS

1. For best results, the PT standards should be refrigerated and then brought to room temperature (near 20°C) when used.
2. The BNA in Soil standard is packaged in two vials. Each vial contains 30.0 ± 0.2 g of standard.
3. Open one vial and quantitatively transfer the *entire* contents of the vial to your extraction apparatus. Rinse the vial thoroughly with extraction solvent and transfer the solvent to the extraction apparatus.
4. Follow your normal procedures for extraction and analysis of a sample for BNAs in Soil.

NOTE: A second identical vial containing 30.0 ± 0.2 g of BNAs in Soil standard has been provided as a backup in the event you experience problems with the extraction or analysis of the initial vial. Store the second vial at 4°C.

REPORTING RESULTS

1. Report all results on line at www.wibby.com. Click on the "Online data entry link" and follow the instructions to enter your results.
2. Report results to three significant figures.

3. For the purposes of reporting results, the percent moisture of the standard is 0% and the sample weight is 30 g. Report all results in $\mu\text{g}/\text{kg}$ on a dry weight basis.
4. You may also report your results using the Data Reporting Sheets enclosed with your standards. FAX your results to Wibby Environmental at 866-283-0269 or mail the results to Wibby Environmental, 6390 Joyce Drive, #100, Golden, CO, 80403.
5. All results must be received by Wibby Environmental prior to the study closing date shown on the Data Reporting Sheets.

SAFETY

These standards are designed for use by laboratory professionals who are familiar with handling environmental reference materials as well as hazardous materials. If you have any questions about the safe handling of these standards or require a Material Safety Data Sheet (MSDS,) please contact Wibby Environmental at 1-866-WibbyPT (866-942-2978).

QUESTIONS?

If you have any questions regarding these standards or reporting requirements, please call Wibby Environmental at 1-866-WibbyPT (866-942-2978).

Soil / Hazardous Waste PT Concentration Ranges and PTRLs

Definitions:

PTRL

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. (REF: NELAC PT FOT Tables)

NA

Not Applicable (NA) has been applied to analytes where a PTRL is not applicable and to state specific analytes that have not had a PTRL determined by the applicable accrediting agency.

Base, Neutrals and Acids (PT-BNA-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
5500	Acenaphthene	µg/kg	1000 - 12000	100
5505	Acenaphthylene	µg/kg	1000 - 12000	100
5555	Anthracene	µg/kg	1000 - 12000	100
5575	Benzo(a)anthracene	µg/kg	1000 - 12000	100
5585	Benzo(b)fluoranthene	µg/kg	1000 - 12000	100
5600	Benzo(k)fluoranthene	µg/kg	1000 - 12000	100
5590	Benzo(g,h,i)perylene	µg/kg	1000 - 12000	100
5580	Benzo(a)pyrene	µg/kg	1000 - 12000	100
5660	4-Bromophenyl-phenylether	µg/kg	1500 - 15000	150
5670	Butyl benzyl phthalate	µg/kg	1500 - 15000	150
5700	4-Chloro-3-methylphenol	µg/kg	1500 - 15000	150
5760	Bis(2-chloroethoxy)methane	µg/kg	1500 - 15000	150
5765	bis(2-Chloroethyl)ether	µg/kg	1500 - 15000	150
5780	Bis(2-chloroisopropyl) ether	µg/kg	1500 - 15000	150
5795	2-Chloronaphthalene	µg/kg	1000 - 10000	100
5800	2-Chlorophenol	µg/kg	1500 - 15000	150
5825	4-Chlorophenyl-phenylether	µg/kg	1500 - 15000	150
5855	Chrysene	µg/kg	1000 - 12000	100
5895	Dibenzo(a,h)anthracene	µg/kg	1000 - 12000	100
5905	Dibenzofuran	µg/kg	1500 - 15000	150
5925	Di-n-butylphthalate	µg/kg	1500 - 15000	150
4610	1,2-Dichlorobenzene	µg/kg	1500 - 15000	150
4615	1,3-Dichlorobenzene	µg/kg	1500 - 15000	150
4620	1,4-Dichlorobenzene	µg/kg	1500 - 15000	150
6000	2,4-Dichlorophenol	µg/kg	1500 - 15000	150
6070	Diethylphthalate	µg/kg	1500 - 15000	150
6135	Dimethylphthalate	µg/kg	1500 - 15000	150
6185	2,4-Dinitrotoluene	µg/kg	1500 - 15000	150
6190	2,6-Dinitrotoluene	µg/kg	1500 - 15000	150
6200	Di-n-octylphthalate	µg/kg	1500 - 15000	150
6065	Bis(2-ethylhexyl)phthalate	µg/kg	1500 - 15000	150
6265	Fluoranthene	µg/kg	1000 - 12000	100
6270	Fluorene	µg/kg	1000 - 12000	100
6275	Hexachlorobenzene	µg/kg	1500 - 15000	150
4835	Hexachlorobutadiene	µg/kg	1500 - 15000	150
4840	Hexachloroethane	µg/kg	1500 - 15000	150
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1000 - 12000	100
6320	Isophorone	µg/kg	1500 - 15000	150
6385	2-Methylnaphthalene	µg/kg	1000 - 12000	100
6400	2-Methylphenol	µg/kg	3000 - 15000	300
6410	4-Methylphenol (and/or 3-Methylphenol)	µg/kg	3000 - 15000	300

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Base, Neutrals and Acids (PT-BNA-SOIL) cont'd

NELAC Code	Analyte	Units	Concentration Range	PTRL
5005	Naphthalene	µg/kg	1000 - 12000	100
5015	Nitrobenzene	µg/kg	1500 - 15000	150
6490	2-Nitrophenol	µg/kg	3000 - 15000	300
6500	4-Nitrophenol	µg/kg	3000 - 15000	300
6545	N-Nitroso-di-n-propylamine	µg/kg	1500 - 15000	150
6605	Pentachlorophenol	µg/kg	3000 - 15000	300
6615	Phenanthrene	µg/kg	1000 - 12000	100
6625	Phenol	µg/kg	1500 - 15000	150
6665	Pyrene	µg/kg	1000 - 12000	100
5155	1,2,4-Trichlorobenzene	µg/kg	1500 - 15000	150
6835	2,4,5-Trichlorophenol	µg/kg	1500 - 15000	150
6840	2,4,6-Trichlorophenol	µg/kg	1500 - 15000	150
Additional State Specific Analytes				
5145	2-Amino-1-methylbenzene	µg/kg	500 - 10000	NA
5545	Aniline	µg/kg	500 - 10000	NA
5595	Benzidine	µg/kg	500 - 10000	NA
5610	Benzoic acid	µg/kg	500 - 10000	NA
5625	Benzotrichloride	µg/kg	500 - 10000	NA
5630	Benzyl alcohol	µg/kg	500 - 10000	NA
5635	Benzyl chloride	µg/kg	500 - 10000	NA
5680	Carbazole	µg/kg	500 - 10000	NA
5745	4-Chloroaniline	µg/kg	500 - 10000	NA
5790	1-Chloronaphthalene	µg/kg	500 - 10000	NA
5810	2-Chlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
5815	3-Chlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
5820	4-Chlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
5885	Diamylphthalate	µg/kg	500 - 10000	NA
5920	2,4-Dibromophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
5945	3,3'-Dichlorobenzidine	µg/kg	500 - 10000	NA
6005	2,6-Dichlorophenol	µg/kg	1500 - 15000	300
6010	2,4-Dichlorophenyl-3-methyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6015	2,3-Dichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6020	2,4-Dichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6025	2,5-Dichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6030	2,6-Dichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6035	3,4-Dichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6040	3,5-Dichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6055	Dicyclohexylphthalate	µg/kg	500 - 10000	NA
6130	2,4-Dimethylphenol	µg/kg	3000 - 15000	600
6175	2,4-Dinitrophenol	µg/kg	3000 - 15000	600
6195	Dinonylphthalate	µg/kg	500 - 10000	NA

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NELAC Code	Analyte	Units	Concentration Range	PTRL
Additional State Specific Analytes cont'd				
6280	Hexachlorocyclohexane	µg/kg	500 - 10000	NA
6285	Hexachlorocyclopentadiene	µg/kg	1500 - 15000	300
6305	Hexyl-2-ethylhexylphthalate	µg/kg	500 - 10000	NA
6335	Maleic anhydride	µg/kg	500 - 10000	NA
6350	bis(2-methoxyethyl)phthalate	µg/kg	500 - 10000	NA
6360	2-Methyl-4,6-Dinitrophenol	µg/kg	3000 - 15000	600
6460	2-Nitroaniline	µg/kg	500 - 10000	NA
6465	3-Nitroaniline	µg/kg	500 - 10000	NA
6470	4-Nitroaniline	µg/kg	500 - 10000	NA
6495	3-Nitrophenol	µg/kg	500 - 10000	NA
6505	4-Nitrophenylphenylether	µg/kg	500 - 10000	NA
6525	N-Nitrosodiethylamine	µg/kg	1500 - 15000	NA
6530	N-Nitrosodimethylamine	µg/kg	1500 - 15000	300
6535	N-Nitrosodiphenylamine	µg/kg	1500 - 15000	300
6590	Pentachlorobenzene	µg/kg	500 - 10000	NA
6595	Pentachlorohexane	µg/kg	500 - 10000	NA
5095	Pyridine	µg/kg	500 - 10000	NA
6705	1,2,3,4-Tetrachlorobenzene	µg/kg	500 - 10000	NA
6710	1,2,3,5-Tetrachlorobenzene	µg/kg	500 - 10000	NA
6715	1,2,4,5-Tetrachlorobenzene	µg/kg	500 - 10000	NA
6730	2,3,4,5-Tetrachlorophenol	µg/kg	500 - 10000	NA
6735	2,3,4,6-Tetrachlorophenol	µg/kg	500 - 10000	NA
6740	2,3,5,6-Tetrachlorophenol	µg/kg	500 - 10000	NA
5150	1,2,3-Trichlorobenzene	µg/kg	500 - 10000	NA
6800	1,3,5-Trichlorobenzene	µg/kg	500 - 10000	NA
6845	2,3,4-Trichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6850	2,3,5-Trichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6855	2,3,6-Trichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6860	2,4,5-Trichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6865	2,4,6-Trichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA
6870	3,4,5-Trichlorophenyl-4-nitrophenylether	µg/kg	500 - 10000	NA