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Instructions for: **Extractable Petroleum Hydrocarbons (EPH) in Soil** (cat # PT-EPH-USTS)

SCOPE AND APPLICATION

Wibby Environmental's Extractable Petroleum Hydrocarbons in Soil Proficiency Testing Standard is designed to be used for with the Massachusetts, North Carolina and Washington state specific hydrocarbon 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 303-940-0033.

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 EPH in Soil standard is packaged in two vials. Each vial contains 20.0 ± 0.1g 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 EPH in Soil.

REPORTING RESULTS

1. For the purposes of reporting results, the percent moisture of the PT standard is 0% and the sample weight is 20.0 g.
2. Report results to three significant figures.
3. There are two sections for reporting EPH data per the requirements of Massachusetts and North Carolina (first section) and Washington (second section). If you have any questions regarding reporting results

per the requirements of these states, please contact Wibby Environmental at 1-866-WibbyPT (866-942-2978)

4. Report your results on line at www.wibby.com. Click on the "Online Data Entry" link or the "PT Manage" link.
5. 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.
6. Wibby Environmental must receive all results 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).

Underground Storage Tank 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.

EPH in Soil (PT-EPH-USTS)

| NELAC Code | Analyte | Units | Concentration Range | PTRL |
|---|-----------------------------------|-------|---------------------|------|
| Additional State Specific Analytes | | | | |
| - | C9 - C18 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | C19 - C36 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | C11-C22 Aromatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| 5500 | Acenaphthene | mg/kg | 1.00 - 50.0 | NA |
| 5505 | Acenaphthylene | mg/kg | 1.00 - 50.0 | NA |
| 5555 | Anthracene | mg/kg | 1.00 - 50.0 | NA |
| 5575 | Benzo(a)anthracene | mg/kg | 1.00 - 50.0 | NA |
| 5585 | Benzo(b)fluoranthene | mg/kg | 1.00 - 50.0 | NA |
| 5600 | Benzo(k)fluoranthene | mg/kg | 1.00 - 50.0 | NA |
| 5590 | Benzo(g,h,i)perylene | mg/kg | 1.00 - 50.0 | NA |
| 5580 | Benzo(a)pyrene | mg/kg | 1.00 - 50.0 | NA |
| 5855 | Chrysene | mg/kg | 1.00 - 50.0 | NA |
| 5895 | Dibenz(a,h)anthracene | mg/kg | 1.00 - 50.0 | NA |
| 6265 | Fluoranthene | mg/kg | 1.00 - 50.0 | NA |
| 6270 | Fluorene | mg/kg | 1.00 - 50.0 | NA |
| 6315 | Indeno(1,2,3-cd)pyrene | mg/kg | 1.00 - 50.0 | NA |
| 5005 | Naphthalene | mg/kg | 1.00 - 50.0 | NA |
| 6615 | Phenanthrene | mg/kg | 1.00 - 50.0 | NA |
| 6665 | Pyrene | mg/kg | 1.00 - 50.0 | NA |

EPH in Soil (Washington) (PT-EPH-USTS(WA))

| NELAC Code | Analyte | Units | Concentration Range | PTRL |
|---|------------------------------------|-------|---------------------|------|
| Additional State Specific Analytes | | | | |
| - | C8 - C10 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C10 - C12 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C12 - C16 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C16 - C21 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C21 - C34 Alliphatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | C8 - C10 Aromatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C10 - C12 Aromatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C12 - C16 Aromatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C16 - C21 Aromatic Hydrocarbons | mg/kg | 100 - 1500 | NA |
| - | >C21 - C34 Aromatic Hydrocarbons | mg/kg | 100 - 1500 | NA |