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## Instructions for: *UST Iowa BTEX in Water (cat # PT-IABTEX-USTW)*

### **SCOPE AND APPLICATION**

Wibby Environmental's UST Iowa BTEX in Water Proficiency Testing Standard is designed to be compliant with all Iowa specific criteria for a BTEX in Water PT standard. You should be familiar with the method(s) required by Iowa 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 standard should be refrigerated and then brought to room temperature (near 20°C) when used.
2. Bring a 100 mL class A volumetric flask to volume with volatile free deionized water.
3. Carefully open the ampule by snapping off the top at the narrow part of the neck.
4. Transfer exactly 50.0 µL (micro liters) of the concentrate to the flask using a gas tight syringe and delivering the aliquot below the surface of the water.
5. Mix the solution by inverting the volumetric flask a minimum of three times.
6. The standard is now ready for preparation and analysis per the selected method(s). We recommend the standard be analyzed as soon as possible after dilution. If this is not possible, transfer the diluted standard to VOA vials and store at 4° C until analysis.

### **REPORTING RESULTS**

1. Report results to three significant figures.
2. Report your results on line at [www.wibby.com](http://www.wibby.com). Click on the "Online Data Entry" link or the "PT Manage" link.
3. You may also report your results using the Data Reporting Sheets enclosed with your standards. FAX your results to Wibby Environmental at 303-940-0043 or mail the results to Wibby Environmental, 6390 Joyce Drive, #100, Golden, CO, 80403.
4. 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).

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## 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.

### Iowa BTEX in Water (PT-IABTEX-USTW)

NELAC Code	Analyte	Units	Concentration Range	PTRL
<b>Additional State Specific Analytes</b>				
4375	Benzene	µg/L	5.00 - 1000	NA
4765	Ethylbenzene	µg/L	5.00 - 1000	NA
5140	Toluene	µg/L	5.00 - 1000	NA
5260	Xylenes, total	µg/L	5.00 - 1000	NA