

Instructions for: **Soil Anions (Cat # PT-AN-SOIL)**

SCOPE AND APPLICATION

Wibby Environmental's Soil Anions Proficiency Testing Standard is designed to be used for USEPA methods. The standard requires a deionized water extraction prior to analysis. 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 standard should be stored near room temperature (~20°C).
 2. The PT standard requires extraction with deionized water prior to analysis.
 3. Thoroughly mix the PT standard prior to removing an aliquot for extraction and analysis.
 4. Weigh out 10.0 g of standard and add 100 ml of deionized water. Extract using a suitable apparatus (e.g., TCLP rotary extraction box, wrist shaker, etc) for two hours at room temperature (~20°C).
 5. After extraction, filter out the solids and collect the water.
 6. Follow your routine procedures for the determination of anions in the water extract. When reporting results, be sure to calculate your results back to the original 10.0 g aliquot taken for extraction.
3. For the purposes of reporting results, the percent moisture of the PT standard is 0%. Report all results in mg/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 303-940-0033.

QUESTIONS?

If you have any questions regarding these standards or reporting requirements, please call Wibby Environmental at 303-940-0033.

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.

6390 Joyce Drive
100
Golden, CO 80403

Phone 303-940-0033
Fax 866-283-0269
www.wibby.com

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.

Anions (PT-AN-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1540	Bromide	mg/kg	10.0 - 100	1.00
1575	Chloride	mg/kg	200 - 1000	20.0
1730	Fluoride	mg/kg	25.0 - 500	2.50
1810	Nitrate as N	mg/kg	25.0 - 500	2.50
2000	Sulfate	mg/kg	25.0 - 2000	2.50
Additional State Specific Analytes				
1870	Orthophosphate as P	mg/kg	25.0 - 500	5.00