



## Instructions for Catalog # 516 WatR™ Pollution Demand

Revision 090119

### Description:

- This standard is packaged in a 15 mL screw-top vial containing approximately 14 mL of standard concentrate.
- This concentrate is preserved with approximately 1%(v/v) hydrochloric acid.
- The concentrate can be stored at room temperature.
- This product is intended to be used as a quality control check of the entire analytical process for the analytes/matrix included in the standard.
- The dilution instructions below represent the minimum suggested sample size for this product. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown on the certificate of analysis.
- The certified values apply to the diluted sample after following the stated dilution instructions

### Helpful Hints:

- This standard has been prepared as a concentrate and must be diluted prior to analysis.
- The concentrate is preserved with hydrochloric acid, therefore, the resulting diluted standard may have a pH outside the working range of your test method. For the analysis of BOD and CBOD, *Standard Methods for the Examination of Water and Wastewater* indicates that a solution of dilute sodium hydroxide should be used to raise the pH of the diluted standard to the specified range.
- It is necessary to seed dilutions of this standard prior to BOD and CBOD analysis.
- A nitrification inhibitor must be used when analyzing for CBOD.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

### Instructions:

1. Add 100-200 mL of deionized water to a clean 1000 mL class A volumetric flask.
2. Shake the Demand vial prior to opening.
3. Using a clean, dry, class A pipet, volumetrically pipet 5.0 mL of the concentrate into the 1000 mL volumetric flask.
4. Dilute the flask to final volume with deionized water.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.

### Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Safety Data Sheets (SDS) for all ERA products are available through our website [www.eraqc.com](http://www.eraqc.com).