Instructions for Catalog # 516QR

WatR™Pollution Demand

Revision 030512

## 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.
- The diluted standard will contain all the analytes listed in the ranges specified on the data reporting form.

## Before you begin:

- This standard has been prepared as a concentrate and must be diluted prior to analysis.
- As the Demand concentrate is preserved with hydrochloric acid, the resulting diluted standard may have a pH of less than 6.5. For the analysis of BOD and CBOD, *Standard Methods for the Examination of Water and Wastewater* indicates that you should use a solution of dilute sodium hydroxide to raise the pH of the diluted standard to between 6.5 and 7.5 s.u.
- 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.
7. Report your results as mg/L for the diluted sample.

## 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. Material Safety Data Sheets (MSDS) for all ERA products are available by calling 1-800-372-0122.