



**SYNTHETIC ORGANIC CONTAMINANTS (SOC) TEST GROUP**

**CHLORINATED WATER SYSTEMS**  
**SAMPLING INSTRUCTIONS**

Refer to your Sampling Plan for the location to collect the SOC samples.  
An extra vial is included to check for effectiveness of the neutralization at the lab.  
EPA 531.1 analysis is subcontracted to an accredited laboratory.

**Shipping and Handling:**

**It is very important to fill the 40 mL vials completely without air bubbles.**

**Keep samples at a temperature less than 6<sup>0</sup>C from time of collection until delivery to the lab.**

**Maximum holding time is 7 days.**

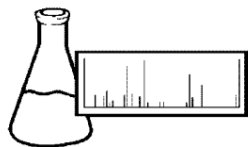
Sampling Materials:

EPA Method 504.1	2 - 40 mL vials containing Sodium Thiosulfate
EPA Method 505	2 - 40 mL vials containing Sodium Thiosulfate
EPA Method 515.4	3 - 40 mL vials containing Sodium Sulfite
EPA Method 531.1	2 - 40 mL vials containing MCAA + Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
EPA Method 525.2	2 - 1 Liter amber bottles containing sodium sulfite
Trip Blank	1-40ml Vial filled with Reagent Water. Do Not Open.
Chlorine Check vial	1 - 40 mL vial for check of effectiveness of dechlorination
HCl Preservative	2 - 4 mL capped vials of 1:1 HCl <b><i>Avoid skin contact; if so, rinse thoroughly with water.</i></b>

Sampling Procedure:

1. Turn on the cold water tap and run for 4 to 5 minutes, then reduce flow so that stream of water is not greater than 1/8 inch in diameter.
2. Remove cap and carefully fill each vial until the water meniscus is above the rim of the vial.
3. Replace cap and gently invert to check for air bubbles.. If bubbles are present, unscrew the cap and add additional sample and check again for bubbles. Do not pour out and start over.
4. Remove the cap from one of the 1 Liter amber bottles. Do not rinse out the bottle. Fill bottle to the neck. Replace cap and gently invert to mix. It is acceptable to have air space in this bottle.
5. Fill the remaining 1 Liter bottle in a similar manner.
6. Remove the cap from the vial labeled "Chlorine Check Vial".  
Pour some sample from each of the two Amber Liter bottles into the 40 mL vial. Air bubbles are acceptable for this vial.
7. Add the contents of one of the 4 mL capped vials of 1:1 HCl to the 1 Liter Amber bottles. Replace cap securely and gently invert to mix. Add the contents of the second 4 mL capped vial to the remaining 1 Liter Amber bottle.





≡ **ENDYNE, INC.**

## Laboratory Services

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### SYNTHETIC ORGANIC CONTAMINANTS (SOC) TEST GROUP

#### NON-CHLORINATED WATER SYSTEMS SAMPLING INSTRUCTIONS

Refer to your Sampling Plan for the location to collect the SOC samples.

An extra vial is included to check for Chlorine

A Trip Blank (40 mL vial pre-filled with laboratory water) accompanies each sample kit and is returned to the laboratory unopened; it is analyzed if there is a positive target hit by EPA Method 504.1.

EPA 531.1 analysis is subcontracted to an accredited laboratory.

It is very important to fill the 40 and 60 mL vials completely so there are no air bubbles.

#### **Shipping and Handling:**

**It is very important to fill the 40 mL vials completely without air bubbles.**

**Keep samples at a temperature less than 6<sup>0</sup>C from time of collection until delivery to the lab.**

**Maximum holding time is 7 days.**

#### Sampling Materials

EPA Method 504.1	2 - 40 mL vials
EPA Method 505	2 - 40 mL vials
EPA Method 515.4	3 - 40 mL vials
EPA Method 531.1	2 - 40 mL vials containing MCAA+ Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
Method 525.2	2 - 1 Liter amber bottles with HCl preservative
Trip Blank	1-40ml Vial filled with Reagent Water. Do Not Open.
Chlorine Check vial	1 - 40 mL vial for check for presence of chlorine

1. Turn on the cold water tap and run for 4 to 5 minutes, then reduce flow so that stream of water is not greater than 1/8 inch in diameter.
2. Remove cap and carefully fill each vial until the water meniscus is above the rim of the vial.
3. Replace cap and invert to check for air bubbles.. If bubbles are present, unscrew the cap and add additional sample and check again for bubbles. Do not pour out and start over.
4. Fill the Chlorine Check vial. Air bubbles are acceptable in this vial.
5. Remove the cap from one of the 1 Liter amber bottles which contains Hydrochloric Acid. **Avoid skin contact; if so, rinse thoroughly with water.** Do not rinse out the bottle. Fill bottle to the shoulder. Replace cap and gently invert to mix. It is acceptable to have air space in this bottle

