



# Sample Preservation Chart

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Additional Locations in California: Visalia, Bakersfield, & Livermore  
Analytical Services provided in CA, NV, OR, WA, & HI

## Organic Analyses

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	Method	Analyte Groups	Hold Time	Container	Preservation Requirements
Drinking Water	EPA 524.2	Trihalomethanes	14 days	3 x 40mL AG VOAs	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
		VOCs—Raw Water	14 days	3 x 40mL VOAs	HCl pH ≤ 2 ≤ 6°C
	EPA 524.2 / CA DHS	VOCs—Finished Water & 1,2,3-Trichloropropane	14 days	250 mL AG & 3 x 40mL VOAs	Ascorbic (AG) & HCl (VOAs) pH ≤ 2 ≤ 6°C
	EPA 524.3	Regulated Volatile Organics	14 days	3 x 40mL VOAs	Ascorbic + Maleic pH ≤ 2 ≤ 6°C
	EPA 504	EDB, DBCP	14 days	3 x 40mL VOAs	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
	EPA 505	Organochlorine Pesticides	7 days	3 x 40mL VOAs	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
	EPA 515	Chlorinated Herbicides	14 days	250mL AG	Na <sub>2</sub> O <sub>3</sub> S ≤ 6°C
	EPA 521	n-Nitrosodimethylamine	14 days	1L AG	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
	EPA 525	Semivolatile Organics	14 days	2 x 1L AG	Ascorbic, EDTA, KH <sub>2</sub> Ct ≤ 6°C
	EPA 531	Carbamates	28 days	1 x 40mL VOA	MCAA Buffer + Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> pH = 3 ≤ 6°C
	EPA 547	Glyphosate	14 days	1 x 40mL VOA	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
	EPA 548	Endothall	7 days	250mL AG	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
	EPA 549	Diquat/Paraquat	7 days	1L Brown Plastic	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ≤ 6°C
EPA 552	Haloacetic Acids	14 days	250mL AG	NH <sub>4</sub> Cl ≤ 6°C	
EPA 632	Diuron	7 days	2 x 1L AG	No Preservative ≤ 6°C	
Wastewater	EPA 608	OCI Pesticides, PCBs	7 days	2 x 1L AG	No Preservative ≤ 6°C
	EPA 624	Volatile Organics	Preserved=14 days No Preserve=7 days	3 x 40mL VOAs	HCl or No Preservative pH ≤ 2 or 7 ≤ 6°C
		Acrolein, Acrylonitrile	Preserved=14 days No Preserve=3 days	1 x 40mL VOA	pH 4-5 Buffer or No Pres. pH 4-5 or 7 ≤ 6°C
		2-Chloroethyl vinyl ether	14 days	2 x 40mL VOAs	No Preservative ≤ 6°C
	EPA 625	Semivolatile Organics	7 days	2 x 1L AG	No Preservative ≤ 6°C
EPA 632/8321	Carbamates	7 days	2 x 1L AG	No Preservative ≤ 6°C	
RCRA	EPA 8081/8082	OCI Pesticides & PCBs	L=7; S=14 days	2 x 1L AG/ ST or Jar	No Preservative ≤ 6°C
	EPA 8151	Phenoxy Acid Herbicides	L=7; S=14 days	2 x 1L AG/ ST or Jar	No Preservative ≤ 6°C
	EPA 8260	Volatile Organics	Preserved=14 days No Preserve=7 days	3 x 40mL VOAs	HCl or No Preservative pH ≤ 2 or 7 ≤ 6°C
		Acrolein, Acrylonitrile	Preserved=7 days No Preserve=3 days	1 x 40mL VOA	pH 4-5 Buffer or No Pres. pH 4-5 or 7 ≤ 6°C
		2-Chloroethyl vinyl ether	7 days	1 x 40mL VOA	No Preservative ≤ 6°C
EPA 8270	Semivolatile Organics	L=7; S=14 days	2 x 1L AG/ ST or Jar	No Preservative ≤ 6°C	
Hydro	GC/MS	BTEX / TPH-G	14 days	3 x 40mL VOAs	HCl pH ≤ 2 ≤ 6°C
	NWTPH-Gx	TPH-G in Pacific Northwest	Preserved=14 days No Preserve=7 days	3 x 40mL VOAs	HCl or No Preservative pH ≤ 2 or 7 ≤ 6°C
	EPA 1664	Oil & Grease HEM	28 days	2 x 1L AG	HCl or H <sub>2</sub> SO <sub>4</sub> pH ≤ 2 ≤ 6°C
	EPA 5520	Oil & Grease, TPH-Diesel	14 days	2 x 1L AG	HCl or H <sub>2</sub> SO <sub>4</sub> pH ≤ 2 ≤ 6°C
	EPA 8015	Diesel	14 days	2 x 1L AG	HCl or H <sub>2</sub> SO <sub>4</sub> ≤ 6°C
	NWTPH-Dx	TPH-D in Pacific Northwest	Preserved=14 days No Preserve=7 days	2 x 1L AG	HCl or No Preservative pH ≤ 2 or 7 ≤ 6°C

ST=Soil Tube AG=Amber Glass 1L=1 Liter L=Liquid S=Solid

	<b>Analyses</b>	<b>Hold Time</b>	<b>Container</b>	<b>Preservation Requirements</b>			
<b>Wet Chemistry</b>	Alkalinity, Bicarbonate, Carbonate	14 days	250mL Plastic	No Preservative	≤ 6°C		
	BOD, CBOD (call for instructions)	<b>48 hours</b>	1L Plastic	No Preservative	≤ 6°C		
	Bromate, Chlorate	28 days	250mL AG	EDA	≤ 6°C		
	Chlorite	14 days	250mL AG	EDA	≤ 6°C		
	Bromide	28 days	250mL Plastic or AG	EDA or No Preserv.			
	Carbon, Total Org. (TOC)	28 days	3 x 40mL VOAs	H <sub>3</sub> PO <sub>4</sub>	pH ≤ 2	≤ 6°C	
	Carbon, Dissolved Org. (DOC)	28 days	3 x 40mL VOAs	No Preservative		≤ 6°C	
	<b>COD</b>	<b>28 days</b>	<b>250mL AG</b>	<b>H<sub>2</sub>SO<sub>4</sub></b>	<b>pH ≤ 2</b>	<b>≤ 6°C</b>	
	Nitrate, Nitrite, Orthophosphate	<b>48 hours</b>	250mL Plastic	No Preservative		≤ 6°C	
	Chlorine, Residual	<b>15 minutes</b>	250mL Plastic	No Preservative		≤ 6°C	
	Chromium, Hexavalent (Cr+6) DW	14 days	250mL Plastic	NH <sub>4</sub> OH/(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	pH > 8	≤ 6°C	
	Chromium, Hexavalent (Cr+6) WW	28 days	250mL Plastic	NH <sub>4</sub> OH/(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	pH = 9.3-9.7	≤ 6°C	
	Chromium, Hexavalent (Cr+6) WW	24 hours	250mL Plastic	NH <sub>4</sub> OH/(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	pH = 9-9.5	≤ 6°C	
	Color, Turbidity	<b>48 hours</b>	500mL AG	No Preservative		≤ 6°C	
	Conductivity (EC), Sulfate	28 days	250mL Plastic	No Preservative		≤ 6°C	
	Cyanide, Total (CN)	14 days	250mL Plastic	NaOH	pH ≥ 12	≤ 6°C	
	Dissolved Oxygen (DO)	<b>15 minutes</b>	300mL Plastic	Special (ABC) vials			
	TKN, Total Phosphorus, Ammonia (NH <sub>3</sub> )	28 days	250mL Plastic	H <sub>2</sub> SO <sub>4</sub>	pH ≤ 2	≤ 6°C	
	Odor	<b>24 hours</b>	500mL AG	No Preservative		≤ 6°C	
	pH	<b>15 minutes</b>	250mL Plastic	No Preservative		≤ 6°C	
	Perchlorate, Chloride, Fluoride	28 days	250mL Plastic	No Preservative			
	Solids (TDS,TSS,TS, Volatile and Fixed)	7 days	500mL Plastic	No Preservative		≤ 6°C	
	Settable Matter (SM)	<b>48 hours</b>	1L Plastic	No Preservative		≤ 6°C	
	Sulfide (S), Total	7 days	250mL Plastic	ZnAc <sub>2</sub> + NaOH	pH ≥ 9	≤ 6°C	
	Surfactants (MBAS)	<b>48 hours</b>	1L Plastic	No Preservative		≤ 6°C	
	Gross Alpha	1 year	2 x 1L Plastics	HNO <sub>3</sub>	pH ≤ 2		
	<b>Metals</b>	Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Hg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, Sn, U, V, Zn	6 months (Hg 28 days)	500mL Plastic	HNO <sub>3</sub>	pH ≤ 2	
		Mercury (Hg) by EPA 245.7 (WW only)	28 days	250mL Polyethylene	HCl	pH ≤ 2	
		Silica	28 days	500mL Plastic	No Preservative		≤ 6°C
		Lead/Copper Rule	14 days	1L Plastic	No Preservative		
	<b>Externals</b>	Asbestos	<b>48 hours</b>	L= 1L Plastic w/ Foil S=Sealed Bag	No Preservative		≤ 6°C
		Dioxin-1613	1 year	2 x 1L AG	No Preservative		≤ 6°C
Radium 226/228		1 year	2 x 1L Plastics	HNO <sub>3</sub>	pH ≤ 2		
Radon		<b>48 hours</b>	3 x 40mL VOAs	No Preservative			
Phenolics-Low Level		28 days	2 x 1L AG	H <sub>2</sub> SO <sub>4</sub>	pH ≤ 2	≤ 6°C	
Hydrogen Sulfide-Unionized		<b>48 hours</b>	500mL Preserve, 250ml Plastic- None	ZnAc <sub>2</sub> + NaOH	pH ≥ 9	≤ 6°C	
Sulfite (SO <sub>3</sub> )		<b>15 minutes</b>	250mL Plastic	No Preservative		≤ 6°C	
Ultra-LLevel-Hg 1631	Preserved= 3 mos <b>Non-Pres.= 48 hrs</b>	Plastic or Glass bottle received from external lab, double bagged					