

Sampling requirements for Water

Test Parameter	Method	Container	Min. Needed for Analysis	Preservative **	Holding Time
Alcohols & Glycols	EPA 8015	2-40 ml VOA Vials	40 ml	Cool to 4° C, HCl to pH<2	14 days
Alkalinity	EPA 310.1	250 ml plastic HDPE	50 ml	Cool to 4° C	14 days
Amenable Cyanide	EPA 331.5 / 335.2	125 ml plastic HDPE	40 ml	Cool to 4° C NaOH pH>12	14 days
Ammonia Nitrogen	EPA 350.1	250 ml plastic HDPE	10 ml	Cool to 4° C, sulfuric acid, pH<2	28 days
Antimony by GFAA (for NPDES)	204.2	250 ml plastic HDPE	100 ml	Cool to 4° C, nitric acid, pH<2	6 months
AOX	EPA 1650	250 ml amber glass	250 ml	Cool to 4° C	6 months
Arsenic / Selenium by GFAA (for NPDES)	206.2 / 270.2	250 ml plastic HDPE	100 ml	Cool to 4° C, nitric acid, pH<2	6 months
BOD	EPA 405.1	1 liter plastic HDPE	500 ml	Cool to 4° C	48 hours
Bromide	EPA 300.0	125 ml plastic HDPE	10 ml	Cool to 4° C	28 days
BTEX/MTBE	EPA 8021/8260	40 ml VOA Vials	40 ml	Cool to 4° C, HCl to pH<2	14 days
Carbon Dioxide	SM 4500-CO ₂ B	500 ml plastic HDPE	200 ml	Cool to 4° C	immediate
CBOD	EPA 405.1	1 liter plastic HDPE	500 ml	Cool to 4° C	48 hours
Chloride	EPA 300.0	125 ml plastic HDPE	10 ml	Cool to 4° C	28 days
Chloride	SM 4500-Cl ⁻ D	250 ml plastic HDPE	50 ml	Cool to 4° C	28 days
COD	EPA 410.4	125 ml plastic HDPE	2 ml	Cool to 4° C, sulfuric acid, pH<2	28 days
Coliform Bacteria (Presence/Absence)	SM 9223 B	Sterile bottle	100 ml	Cool to 4° C	24 hours
Color	EPA 110.2	250 ml plastic HDPE	50 ml	Cool to 4° C	48 hours
Conductivity	EPA 120.1	125 ml plastic HDPE	25 ml	Cool to 4° C	28 days
Corrosivity	EPA 9040	125 ml plastic HDPE	30 ml	Cool to 4° C	ASAP
Cyanide	EPA 335.2	125 ml plastic HDPE	10 ml	Cool to 4° C, NaOH pH>12	14 days
Dissolved Oxygen	EPA 360.2	300 ml glass BOD bottle	300 ml	MnSO ₄ sol'n, alkali-iodide-azide sol'n, H ₂ SO ₄	8 hours
DRO	EPA 8015	2-1 liter amber glass	1 liter	Cool to 4° C, HCl to pH<2	7 days
E. Coli	m-ColiBlue24 or SM 9222 G	Sterile bottle	100 ml	Cool to 4° C	24 hours
Fecal Coliform	SM 9222 D	Sterile bottle	100 ml	Cool to 4° C	24 hours
Flashpoint	EPA 1010	250 ml plastic HDPE	75 ml	Cool to 4° C	14 days
Fluoride	EPA 300.0	125 ml plastic HDPE	10 ml	Cool to 4° C	28 days
Formaldehyde	AOAC 31.203	250 ml plastic HDPE	30 ml	Cool to 4° C	28 days
GRO	EPA 8015	40 ml VOA Vials	40 ml	Cool to 4° C, HCl to pH<2	14 days
Hardness	EPA 130.2	250 ml plastic HDPE	100 ml	Cool to 4° C, nitric acid, pH<2	6 months
Herbicides	EPA 515.1/8151	2-1 liter amber glass	1 liter	Cool to 4° C	7 days
Heterotrophic Plate Count	SM 9215 B	Sterile bottle	4 ml	Cool to 4° C	24 hours
Hexavalent Chromium	EPA 7196	250 ml plastic HDPE	50 ml	Cool to 4° C	24 hours
Hydrogen Peroxide	EM Science Reflectoquant	40 ml VOA Vials	10 ml	Cool to 4° C, no headspace	immediate
Mercury	245.1 or 7470	250 ml plastic HDPE	25 ml	Cool to 4° C, nitric acid, pH<2	28 days
Mercury (low-level)	EPA 1631	250 ml borosilicate glass	25 ml	HCl, Bromate/Bromide	90 days
Metals-Total	6010 / 6020 / 7000	250 ml plastic HDPE	50 ml	Cool to 4° C, nitric acid, pH<2	6 months
Metals-Dissolved	6010/6020/7000	250 ml plastic HDPE	50 ml	Field filtered, Cool to 4° C, nitric acid, pH<2	6 months
Metals by GFAA (for NPDES)	200 Series	250 ml plastic HDPE	100 ml	Cool to 4° C, nitric acid, pH<2	6 months
Metals by ICP (for NPDES)	200.7	250 ml plastic HDPE	100 ml	Cool to 4° C, nitric acid, pH<2	6 months
Methane, Ethane, Ethene	TAL Method	40 ml VOA Vials	40 ml	Cool to 4° C, HCl to pH<2	14 days
Nitrate Nitrogen	EPA 300.0	125 ml plastic HDPE	10 ml	Cool to 4° C	48 hours
Nitrite Nitrogen	EPA 300.0	125 ml plastic HDPE	10 ml	Cool to 4° C	48 hours
Nitrite Nitrogen	SM 4500-NO ₂ ⁻ B	125 ml plastic HDPE	50 ml	Cool to 4° C	48 hours
Odor	EPA 140.1	1 liter amber glass	500 ml	Cool to 4° C	24 hours
Oil and Grease	EPA 413.1	1 liter amber glass	1 liter	Cool to 4° C, sulfuric acid, pH<2	28 days
Oil and Grease (HEM)	EPA 1664A	1 liter amber glass	1 liter	Cool to 4° C, HCl to pH<2	28 days
Orthophosphate	EPA 365.2	125 ml plastic HDPE	5 ml	Cool to 4° C	48 hours
Oxidation-Reduction Potential	ASTM D 1498	125 ml plastic HDPE	30 ml	Cool to 4° C	immediate

PAHs.PNAs	EPA 8270/625	2-1 liter amber glass	1 liter	Cool to 4° C	7 days
PCBs	EPA 608/8082	2-1 liter amber glass	1 liter	Cool to 4° C	7 days
Pesticides	EPA 608/8081	2- 1 liter amber glass	1 liter	Cool to 4° C	7 days
pH	EPA 150.1	125 ml plastic HDPE	30 ml	Cool to 4° C	immediate
Phenols	EPA 420.2	60 ml amber glass (2 oz)	10 ml	Cool to 4° C ,sulfuric acid, pH<2	28 days
Phosphorus	EPA 365.2	250 ml plastic HDPE	5 ml	Cool to 4° C ,sulfuric acid, pH<2	28 days
Reactive Cyanide	SW-846 Chapter 7	250 ml plastic HDPE	50 ml	Cool to 4° C	14 days
Reactive Sulfide	SW-846 Chapter 7	250 ml plastic HDPE	50 ml	Cool to 4° C	14 days
Residual Chlorine	EPA 330.5	250 ml plastic HDPE	100 ml	Cool to 4° C, no headspace	immediate
Semi-volatile Organics	EPA 8270/625	2-1 liter amber glass	1 liter	Cool to 4° C	7 days
Specific Gravity	SM 2710 F	250 ml plastic HDPE	100 ml	Cool to 4° C	28 days
Sulfate	EPA 300.0	125 ml plastic HDPE	10 ml	Cool to 4° C	28 days
Sulfide	EPA 376.1	300 ml glass BOD bottle	300 ml	zinc acetate, NaOH, pH>9	7 days
Sulfide	EPA 376.2	300 ml glass BOD bottle	10 ml	zinc acetate, NaOH, pH>9	7 days
Sulfide (for leather processing effluents)	40CFR Part 425	250 ml plastic HDPE	100 ml	field filter (Whatman 4), NaOH, pH>12	48 hours
Sulfite	EPA 377.1	300 ml glass BOD bottle	300 ml	Cool to 4° C, EDTA sol'n, no headspace	immediate
Surfactants (MBAS)	EPA 425.1	250 ml plastic HDPE	100 ml	Cool to 4° C	48 hours
Tannin and Lignin	SM 5550 B	125 ml plastic HDPE	10 ml	Cool to 4° C	28 days
TKN	EPA 351.2	125 ml plastic HDPE	25 ml	Cool to 4° C ,sulfuric acid, pH<2	28 days
TOC	EPA 415.1	125 ml plastic HDPE	20 ml	Cool to 4° C ,sulfuric acid, pH<2	28 days
Total Dissolved Solids	EPA 160.1	250 ml plastic HDPE	100 ml	Cool to 4° C	7 days
Total Fixed Solids	EPA 160.4	250 ml plastic HDPE	100 ml	Cool to 4° C	7 days
Total Inorganic Nitrogen	EPA 300.0 / 350.1	125 ml plastic HDPE	10 ml / 10 ml	Cool to 4° C / sulfuric acid, pH<2	48 hours
Total Nitrogen	EPA 300.0 / 351.2	125 ml plastic HDPE	10 ml / 25 ml	Cool to 4° C / sulfuric acid, pH<2	48 hours
Total Organic Nitrogen	EPA 350.1 / 351.2	250 ml plastic HDPE	40 ml	Cool to 4° C ,sulfuric acid, pH<2	28 days
Total Solids	EPA 160.3	250 ml plastic HDPE	100 ml	Cool to 4° C	7 days
Total Suspended Solids	EPA 160.2	250 ml plastic HDPE	100 ml	Cool to 4° C	7 days
Total Volatile Solids	EPA 160.4	250 ml plastic HDPE	100 ml	Cool to 4° C	7 days
TOX	EPA 9020	250 ml amber glass with teflon-lined septum	250 ml	Cool to 4° C ,sulfuric acid, pH<2	28 days
TPH	EPA 418.1	1 liter amber glass	1 liter	Cool to 4° C ,sulfuric acid or HCl, pH<2	28 days
Turbidity	EPA 180.1	125 ml plastic HDPE	20 ml	Cool to 4° C	48 hours
Volatiles	EPA 8260/624	2- 40 ml VOA Vials	40 ml	Cool to 4° C, HCl to pH<2	14 days

**all Temperatures are in Centigrade