

Name	Analytical Method	Container	Preservation	Min. Sample Liq./Solid	Maximum Holding Time
Alkalinity *	SM2320B	P,G	<6°C	50 mL	14 Days
Ammonia *	SM4500-NH3	P,G	<6°C, H2SO4 to pH <2	1 Liter	28 Days
Bromide *	E300.0	P,G	None Required	500 mL	28 Days
BOD *	SM5210B	P,G	Cool to <6°C	1 L	48 Hours Maximum
CBOD *	SM5210B	P,G	Cool to <6°C	1 L	48 Hours Maximum
Chloride *	E300.0	P,G	None Required	100 mL	28 Days
Chlorine, Total or Residual (Free)	SM4500-CIG	P,G	None Required	100 mL	Analyze Immediately
COD *	HACH8000	P,G	<6°C, H2SO4 to pH <2	100 mL	28 Days
Color	H8025	P,G	<6°C, H2SO4 to pH <2	50 mL	48 Hours
Cyanide, Reactive	SW 846, Ch 7.3	G, Teflon lined cap	<6°C	4 ounces	14 Days
Cyanide, Total *and amenable to chlorination	SW9010B SW9012A SM4500 CN E&G	P,G	<6°C; NaOH to pH>12, 0.6 g ascorbic acid	500 mL / 4 ounces	14 Days (water and soil)
Dissolved oxygen	E360.1	G	None Required	500 mL	Analyze Immediately
Flashpoint	SW846-1010	P,G	None Required	100 mL	28 Days
Fluoride*	E300.0	P,G	None Required	100 mL	28 Days
FOG *	E1664	G	5 mL HCl	1 Liter	28 Days
Free Chromic Acid	Titrametric	P	None Required	100 mL	10 Days
Hardness	200.7 cALC	P,G	<6°C, H2SO4 to pH <2	100 mL	6 Months
Hydrogen ion (pH) *	SM4500-H+B	P,G	None Required	100 mL / 4 ounces	Analyze Immediately
Hydrogen Sulfide	H8131	P,G	NaOH & Zinc Acetate	100 mL	Analyze Immediately
Iron, Ferrous	HACH8146	P,G	HNO3 to pH<2	100 mL	Analyze Immediately
Mercury *	E245.1 SW7471A	P,G	HNO3 to pH<2	500 mL / 2 ounces	28 Days (water and soil)
Metals (except chromium (VI) and mercury) *	SW6010, EPA 200.7	P,G	HNO3 to pH<2	500 mL / 2 ounces	180 Days (water and soil)
Nitrate + Nitrite	E300.0	P,G	<6°C, H2SO4 to pH <2	100 mL	28 Days
Nitrate *	E300.0	P,G	<6°C	100 mL	48 Hours
Nitrite *	E300.0	P,G	<6°C	100 mL	48 Hours
Nitrogen, (TKN, Ammonia)	E351.3	P,G	<6°C, H2SO4 to pH <2	500 mL	28 Days
Phenolics, Total-Recoverable	E420.1	P,G	<6°C, H2SO4 to pH <2	1 Liter / 4 ounces	28 Days
Phosphorus, All forms	200.7/6010B	P,G	<6°C, H2SO4 to pH <2	125 mL	28 Days
Phosphorus, Ortho *	E300.0	P,G	<6°C, H2SO4 to pH <2	100 mL	48 Hours
Specific Conductance *	E120.1 /SM2510B	P,G	None Required	100 mL	Immediately Or filter w/i 24 hrs
Sulfate*	E300.0	P,G	None Required	100 mL	28 Days
Sulfide	HACH8131	P,G	NaOH/ZnOAc to pH	100 mL	7 Days
Surfactants	E425.1	P,G	None Required	100 mL	48 Hours
Total Dissolved Solids(Filterable residue) *	SM2540C	P,G	<6°C	100 mL	7 Days
Temperature	E170.1	P,G	None Required	N/A	Analyze Immediately
TKN	E351.3	P,G	<6°C, H2SO4 to pH	1 Liter	28 Days
Total Choliform and E. Coli	SM9222B	Sterile P,G	<6°C, 0.008% Na2S2O3	200 mL	Analyze Immediately

Total Suspended Solids (Nonfilterable residue) *	SM2540D	P,G	<6°C	100 mL	7 Days
Total Organic Carbon	H10129	P,G	<6°C, HCl to pH<2	500 mL	28 Days
Turbidity	E180.1	P,G	<6°C	N/A	48 Hours
Herbicides (Chlorinated)	SW8151A	G, Teflon-lined cap	<6°C, 0.008% Na2S2O3	1 Liter / 4 ounces	7 days until extraction and 40 days after extraction(water); 14 days until extraction and 40 days after extraction (soil)
PAH's (Polynuclear aromatic hydrocarbons)	SW8270C	G, Teflon-lined cap	<6°C, store in dark,	1 Liter / 4 ounces	7 days until extraction and 40 days after extraction(water); 14 days until extraction and 40 days after extraction (soil)
PCB's (Polychlorinated biphenyls)	SW8082/608	G, Teflon-lined cap	<6°C	1 Liter / 4 ounces	1 year until extraction and 1 year after extraction(water)
Pesticides Organochlorine	SW8081/608	G, Teflon-lined cap	<6°C, 0.008% Na2S2O3 TO Ph 5-9	1 Liter / 4 ounces	7 days until extraction and 40 days after extraction(water); 14 days until extraction and 40 days after extraction (soil)
Semi-volatile organics *	SW8270C	G, Teflon-lined cap, Amber	<6°C, 0.008% Na2S2O3	1 Liter / 4 ounces	7 days until extraction and 40 days after extraction(water); 14 days until extraction and 40 days after extraction (soil)
TPH (Total petroleum hydrocarbons) *	TX1005	G, Teflon-lined	<6°C, HCl to pH <2	2 x 40 mL / 4 ounces	Water: 7 Days Soil: 14 Days
TPH (Total petroleum hydrocarbons)	TX1006	G, Teflon-lined	<6°C, HCl to pH <2	2 x 40 mL / 4 ounces	Water: 7 Days Soil: 14 Days
Volatile Organics *	SW8260B/624	G, Teflon-lined septum	<6°C, 0.008% Na2S2O3 (HCl to pH <2)	2 x 40 mL / 4 ounces	14 days (water and soil); 7 days if unpreserved by acid
Volatiles (Aromatic and Halogenated)	SW8021B	G, Teflon-lined septum	<6°C, HCl to pH <2	2 x 40 mL / 4 ounces	14 days (water and soil); 7 days if unpreserved by acid
TCLP/SPLP *	SW1311 SW1312	G, Teflon-lined	Cool <6°C	1 Liter / 4 ounces	Volatiles: 14 days to TCLP extraction and 7 days after extraction Semivolatiles: 14 days to TCLP extraction, 7 days to prep extraction and 40 days after prep extraction Mercury: 28 days to TCLP extraction and 28 days after extraction Metals: 180 days to TCLP extraction and 180 days after extraction