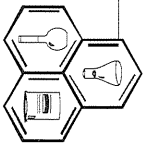
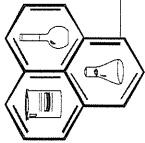


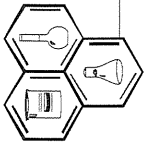
PARAMETER	ANALYTICAL METHOD	HOLDING TIME	PRESERVATIVE	MINIMUM VOLUME (mL)	CONTAINER TYPE
INORGANIC ANALYSES					
ALKALINITY	SM 2320 B	14 Days	Cool to 4°C	200	Plastic or Glass
AMMONIA	SM 4500 NH ₃	28 Days	pH<2 (2 mL 1+1 H ₂ SO ₄), Cool to 4°C	500	Plastic or Glass
BOD-(5day)	SM 5210 B	48 Hours	Cool to 4°C	1000	Plastic or Glass
BROMIDE	EPA 300.1 EPA 300.0	28 Days	None Required	100	Plastic or Glass
COD	SM 5220 D	28 Days	pH<2 (1 mL 1+1H ₂ SO ₄), Cool to 4°C	100	Plastic or Glass
CHLORIDE	SM 4500 Cl B	28 Days	None Required	100	Plastic or Glass
CHLORINE, TOTAL RESIDUAL	EPA 330.5	Analyze Immediately	None Required	100	Plastic or Glass
CHROMIUM VI	SM 3500 Cr D	24 Hours	Cool to 4°C	500	Plastic or Glass
COLOR	SM 2120 B	48 Hours	Cool to 4°C	500	Plastic or Glass
CYANIDE, TOTAL	SM 4500 CN	14 Days	pH>12 (2 mL NaOH), Cool to 4°C 2.5 mL Na ₂ S ₂ O ₃ for Residual Chlorine	1000	1 Liter Plastic
CYANIDE, AMENABLE TO CHLORINATION	SM 4500 CN	14 Days	pH>12 (2 mL NaOH), Cool to 4°C 2.5 mL Na ₂ S ₂ O ₃ for Residual Chlorine	2000	2 X 1 Liter Plastic
FLUORIDE	SM 4500 F EPA 300.0	28 Days	None Required	500	Plastic
HARDNESS	SM 2340 B	6 Months	pH<2 (1 mL 1+1 HNO ₃)	500	Plastic or Glass
HYDROGEN ION (pH)	SM 4500 H B	Analyze Immediately	None Required	100	Plastic or Glass
KJELDAHL & ORGANIC NITROGEN	SM 4500 NH ₃	28 Days	pH<2 (2 mL 1+1 H ₂ SO ₄), Cool to 4°C	1000	Plastic or Glass
MERCURY	EPA 245.1	28 Days	pH<2 (2 mL 1+1 HNO ₃), Cool to 4°C	500	Plastic or Glass
METALS (Except Mercury and Chromium VI)	EPA 200.7 SM 3113 B	6 Months	pH<2 (2 mL 1+1 HNO ₃)	500	Plastic or Glass
NITRATE	SM 4500 NO ₃ EPA 300.0	48 Hours	Cool to 4°C	100	Plastic or Glass
NITRITE	SM 4500 NO ₂ EPA 300.0	48 Hours	Cool to 4°C	100	Plastic or Glass
NITRATE-NITRITE (TOTAL)	SM 4500 NO ₃ E EPA 300.0	28 Days	pH<2 (1 mL 1+1 H ₂ SO ₄), Cool to 4°C	200	Plastic or Glass



PARAMETER	ANALYTICAL METHOD	HOLDING TIME	PRESERVATIVE	MINIMUM VOLUME (mL)	CONTAINER TYPE
INORGANIC ANALYSES					
OIL AND GREASE	EPA 1664	28 Days	pH<2 (2 mL 1+1 HCl), Cool to 4°C	1000	Glass
ORGANIC CARBON (TOC)	SM 5310 B	28 Days	pH<2 (10 drops 1+1 H ₂ SO ₄), Cool to 4°C	100	Plastic or Glass
PHENOLICS	EPA 420.1	28 Days	pH<2 (1 mL 1+1 H ₂ SO ₄), Cool to 4°C	1000	Glass
PHOSPHORUS, HYDROLYZABLE (Requires o-phosphorous analysis also)	SM 4500 P E	28 Days	pH<2 (5 drops 1+1 H ₂ SO ₄), Cool to 4°C	100	Plastic or Glass
PHOSPHORUS, ORTHO-, DISSOLVED	SM 4500 P E EPA 300.0	48 Hours (unpreserved) 28 days (preserved)	Filter Immediately, Cool to 4°C	100	Plastic or Glass
PHOSPHORUS, TOTAL	SM 4500 P E	28 Days	pH<2 (5 drops 1+1 H ₂ SO ₄), Cool to 4°C	100	Plastic or Glass
PHOSPHORUS, TOTAL DISSOLVED	SM 4500 P E	24 Hours	Filter Immediately, pH<2 (5 drops 1+1 H ₂ SO ₄), Cool to 4°C	100	Plastic or Glass
SOLIDS, TOTAL	SM 2540 B	7 Days	Cool to 4°C	1000	Plastic or Glass
SOLIDS, TOTAL DISSOLVED (TDS)	SM 2540 C	7 Days	Cool to 4°C	1000	Plastic or Glass
SOLIDS, TOTAL SUSPENDED (TSS)	SM 2540 D	7 Days	Cool to 4°C	1000	Plastic or Glass
SOLIDS, TOTAL SETTLEABLE	SM 2540 F	48 Hours	Cool to 4°C	1000	Plastic or Glass
SOLIDS, TOTAL VOLATILE	SM 2540 G	7 Days	Cool to 4°C	1000	Plastic or Glass
SPECIFIC CONDUCTANCE	SM 2510 B	28 Days	Cool to 4°C	100	Plastic or Glass
SULFATE	EPA 375.4 EPA 300.0	28 Days	Cool to 4°C	200	Plastic or Glass
SULFIDE	EPA 376.1	7 Days	pH>9 (6N NaOH), 10 drops 2N ZnOAc, Cool to 4°C	300	Glass (BOD Bottle)
SULFITE	EPA 377.1	Analyze Immediately	None Required	100	Plastic or Glass
SURFACTANTS (MBAS)	SM 5540 C	48 Hours	Cool to 4°C	500	Plastic or Glass
TEMPERATURE	SM 2550 B	Analyze Immediately	None Required	100	Plastic or Glass
TURBIDITY	SM 2130 B	48 Hours	Cool to 4°C	100	Plastic or Glass



PARAMETER	ANALYTICAL METHOD	HOLDING TIME	PRESERVATIVE	MINIMUM VOLUME (mL)	CONTAINER TYPE
ORGANIC ANALYSES					
PURGEABLE HALOCARBONS / AROMATICS	EPA 624	14 Days	(¹) 100 µL Na ₂ S ₂ O ₃ , No Headspace, pH<2 (4 drops 1:1 HCl) Cool to 4°C	100	2 x 40 mL Glass vial
PHENOLS, ACID EXTRACTABLE	EPA 625	7(water) 14(soil) days to extraction; 40.days.to.analysis	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Cool to 4°C	1000	2 x 1 Liter Amber Glass
PHTHALATE ESTERS	EPA 625	7(water) 14(soil) days to extraction; 40 days to analysis	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Cool to 4°C	1000	2 x 1 Liter Amber Glass
NITROSAMINES	EPA 625	7 Days to Extraction	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Dark, Cool to 4°C pH 7-10 with H ₂ SO ₄ or NaOH	1000	2 x 1 Liter Amber Glass
PCBs	EPA 608	7(water) 14(soil) days to extraction; 40 days to analysis	pH 6-9 with H ₂ SO ₄ or NaOH, Cool to 4°C	1000	2 x 1 Liter Amber Glass
PESTICIDES, CHLORINATED	EPA 608	7(water) 14(soil) days to extraction; 40.days.to.analysis	pH 5-9 with H ₂ SO ₄ or NaOH, Cool to 4°C	1000	2 x 1 Liter Amber Glass
NITROAROMATICS & ISOPHORONE	EPA 625	7(water) 14(soil) days to extraction; 40.days.to.analysis	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Dark, Cool to 4°C	1000	2 x 1 Liter Amber Glass
POLYNUCLEAR AROMATIC HYDROCARBONS (PAH/PNA)	EPA 625	7(water) 14(soil) days to extraction; 40.days.to.analysis	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Dark, Cool to 4°C	1000	2 x 1 Liter Amber Glass
HALOETHERS	EPA 625	7 Days to Extraction	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Cool to 4°C	1000	2 x 1 Liter Amber Glass
DIOXINS & FURANS	EPA 1613	1 year	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Cool to 0-4°C, pH<9,	1000	2 x 1 Liter Amber Glass
VOLATILE ORGANICS (VOC/VOA)	EPA 624	14 Days	(¹) 100 µL Na ₂ S ₂ O ₃ , No Head Space pH<2 (4 drops 1:1 HCl), Cool to 4°C	100	2 x 40 mL Glass vial
SEMI-VOLATILE ORGANICS	EPA 625	7(water) 14(soil) days to extraction; 40 days to analysis	(¹) 2.5 mL Na ₂ S ₂ O ₃ , Cool to 4°C	1000	2 x 1 Liter Amber Glass
RADIOLOGICAL ANALYSES					
RADIOLOGICAL TEST, GROSS ALPHA & BETA	SM 7110 B	6 Months	pH<2 (4 mL 1+1 HNO ₃)	1000	Plastic
RADIUM TOTAL	SM 7500-Ra	6 Months	pH<2 (4 mL 1+1 HNO ₃)	1000	Plastic



PARAMETER	ANALYTICAL METHOD	HOLDING TIME	PRESERVATIVE	MINIMUM VOLUME (mL)	CONTAINER TYPE
MICROBIOLOGY					
TOTAL COLIFORM	SM 9221 B/C SM 9222 B/G	6 Hours (30h per Energy)	2.5 mL Sterile Na ₂ S ₂ O ₃ , Cool to 4°C	125	Sterile Plastic
FECAL COLIFORM	SM 9221 B/C/E SM 9222 D/G	6 Hours (8h per Energy)	2.5 mL Sterile Na ₂ S ₂ O ₃ , Cool to 4°C	125	Sterile Plastic
E. COLI	SM 2223 SM 9221 B/C/F	6 Hours	2.5 mL Sterile Na ₂ S ₂ O ₃ , Cool to 4°C	125	Sterile Plastic
FECAL STREPTOCOCCI	SM 9230 B/C	6 Hours	2.5 mL Sterile Na ₂ S ₂ O ₃ , Cool to 4°C	125	Sterile Plastic

CWA Section Notes:

- (1) Only add sodium thiosulfate if the sample contains free or combined chlorine.
Na₂S₂O₃ - Sodium thiosulfate solution at 3%.