BIOSOLUTIONS
Cleaner Water through Applied Chemistry & Biology

10180 Queens Way, Unit 6
Chagrin Falls, OH 44023

www.BiosolutionsLab.com

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BOTTLE & PRESERVATION INFORMATION

BOTTLE	PARAMETER	PRESERVATION	MAX. HOLDING TIME	MIN. SAMPLE AMT.**
'A' PLASTIC	Acidity as $CaCO_3$	Cool ≤6°C	14 days	100 ml
	Alkalinity as $CaCO_3$	Cool ≤6°C	14 days	100 ml
	Biological Oxygen Demand (BOD)	Cool ≤6°C	48 hours	500 ml
	Bromide	None Required	28 days	100 ml
	Carbonaceous- BOD (CBOD)	Cool ≤6°C	48 hours	500 ml
	Chloride	None Required	28 days	100 ml
	Chlorine, Total Residual	None Required	Analyze Immediately*	200 ml
	Color	Cool ≤6°C	48 hours	50 ml
	Fluoride	None Required	28 days	300 ml
	pH (Hydrogen Ion)	None Required	Analyze Immediately*	25 ml
	Chromium VI (Hex-Chrome)	Cool ≤6°C	24 hours	200 ml
	MBAS (Surfactants)	Cool ≤6°C	48 hours	250 ml
	Nitrate	Cool ≤6°C	48 hours	100 ml
	Nitrite	Cool ≤6°C	48 hours	100 ml
	Orthophosphate	Filter Immediately, Cool ≤6°C	48 hours	50 ml
	Residue, Total (Total Solids)	Cool ≤6°C	7 days	100 ml
	Residue, Filterable (TDS)	Cool ≤6°C	7 days	100 ml
	Residue, Nonfilterable (TSS)	Cool ≤6°C	7 days	100 ml
	Residue, Settable (Settable Solids)	Cool ≤6°C	48 hours	1 L
	Residue, Volatile (Volatile Solids)	Cool ≤6°C	7 days	100 ml
	Silica	Cool ≤6°C	28 days	50 ml
	Specific Conductance (Conductivity)	Cool ≤6°C	28 days	100 ml
	Sulfate	Cool ≤6°C	28 days	100 ml
	Sulfite	None Required	Analyze Immediately*	50 ml
	Temperature	None Required	Analyze Immediately*	1 L
	Turbidity	Cool ≤6°C	48 hours	100 ml
'B' PLASTIC	Ammonia	Cool ≤6°C, H_2SO_4 to pH<2	28 days	250 ml
	Chemical Oxygen Demand (COD)	Cool ≤6°C, H_2SO_4 to pH<2	28 days	50 ml
	Hardness	H_2SO_4 to pH<2 or D bottle	6 months	100 ml
	Kjeldahl Nitrogen	Cool ≤6°C, H_2SO_4 to pH<2	28 days	250 ml
	Organic Nitrogen	Cool ≤6°C, H_2SO_4 to pH<2	28 days	250 ml
	Organic, Carbon (TOC)	Cool ≤6°C, H_2SO_4 to pH<2	28 days	25 ml
	Phosphorus, Total	Cool ≤6°C, H_2SO_4 to pH<2	28 days	50 ml
'D' PLASTIC	Metals (except Chromium VI and Mercury)	HNO_3 to pH<2	6 months	250 ml
	Hardness	HNO_3 to pH<2	6 months	100 ml
'E' GLASS	Oil & Grease	Cool ≤6°C, H_2SO_4 to pH<2	28 days	500 ml
'F' GLASS	Mercury	HNO_3 to pH<2	28 days	250 ml
'G' GLASS	Phenol	Cool ≤6°C, H_2SO_4 to pH<2	28 days	100 ml
'H' PLASTIC	Cyanide, Total or Free	Cool ≤6°C, NaOH to pH>12	14 days	500 ml
'HH' PLASTIC	Sulfide	Cool ≤6°C, Zinc Acetate and NaOH to pH>9	7 days	500 ml
Sterile Plastic	Total Coliform / E.Coli	Cool <10°C, 0.008% $Na_2S_2O_3$	30 hours	100 ml
	Fecal Coliform	Cool <10°C, 0.008% $Na_2S_2O_3$	6 hours	
	E.Coli (wastewater)	Cool <10°C, 0.008% Na2S2O3	6 hours	
VOC/TTHM 2 Vials	VOC or TTHM	Cool ≤6°C, 0.008% $Na_2S_2O_3$, HCl to pH2	14 days	120 ml

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SOC Group 1 Amber Glass	Alachlor, Atrazine, Simazine	Na_2SO_3 + HCl, Cool ≤6°C	14 days	1 L
SOC Group 2 Amber Glass & 2 Vials	Carbofuran, 2,4-D, Oxamyl, Picloram, Pentachlorophenol	$Na_2S_2O_3$ + MCAA, $Na_2S_2O_3$, Cool ≤6°C	7 days	Multi-volume
SOC Group 3 Amber Plastic, 2 Amber Glass, 2 Vials	Diquat, Glyphosate, Lindane, Methoxychlor, PCBs	Na_2SO_3 + HCl, $Na_2S_2O_3$ + H_2SO_4, $Na_2S_2O_3$, Cool ≤6°C	7 days	Multi-volume
SOC Group 4 (2) Amber Glass	Benzo(a)pyrene, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Endothall	Na_2SO_3 + HCl, $Na_2S_2O_3$, Cool ≤6°C	7-14 days	Multi-volume
HAA5 Amber Glass	HAA5	NH_4Cl, Cool ≤6°C	14 days	250 ml
Radiological Plastic	Gross Alpha, Gross Beta Radium 226, Radium 228	Cool ≤6°C, HNO_3 to pH<2 (at lab)	6 months	2 L
Asbestos Plastic	Asbestos	Cool ≤6°C	48 hours	1 L

*Analyze Immediately - This should be done at the sampling site for best results.
**Minimum Sample Amount - Minimum sample amount needed for normal samples. Please call Biosolutions, LLC at (440) 708-2999 for necessary amounts regarding high/low level samples.

Reference:
Federal Register 40CFR Part 136.3, p47-51, "Table II-Required Containers, Preservation Techniques, and Holding Times".
eCFR current as of Jan. 2018.