

BIOSOLUTIONS, LLC.

10180 Queens Way #6 · Chagrin Falls, OH 44023 · Phone: 440-708-2999 · Fax: 440-708-2988

BOTTLE & PRESERVATION INFORMATION

			MAXIMUM	MIN.
			HOLDING	SAMPLE
BOTTLE	PARAMETER	PRESERVATION	TIME	AMT.**
A				
Plastic	Acidity as CaCO ₃	Cool 4 C	14 days	100 ml
	Alkalinity as CaCO ₃	Cool 4 C	14 days	100 ml
	Biological Oxygen Demand (BOD)	Cool 4 C	48 hours	500 ml
	Bromide	None Required	28 days	100 ml
	Carbonaceous- BOD (CBOD)	Cool 4 C	48 hours	500 ml
	Chloride	None Required	28 days	50 ml
	Chlorine, Total Residual	None Required	Analyze Immediately*	200 ml
	Color	Cool 4 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 4 C	24 hours	200 ml
	MBAS (Surfactants)	Cool 4 C or E bottle	48 hours	250 ml
	Nitrate	Cool 4 C	48 hours	100 ml
	Nitrite	Cool 4 C	48 hours	50 ml
	Orthophosphate	Filter Immediately, Cool 4 C	48 hours	50 ml
	Residue, Total (Total Solids)	Cool 4 C	7 days	100 ml
	Residue, Filterable (TDS)	Cool 4 C	7 days	100 ml
	Residue, Nonfilterable (TSS)	Cool 4 C	7 days	100 ml
	Residue, Settable (Settable Solids)	Cool 4 C	48 hours	1000 ml
	Residue, Volatile (Volatile Solids)	Cool 4 C	7 days	100 ml
	Silica	Cool 4 C	28 days	50 ml
	Specific Conductance (Conductivity)	Cool 4 C	28 days	100 ml
	Sulfate	Cool 4 C	28 days	50 ml
	Sulfite	None Required	Analyze Immediately*	50 ml
	Temperature	None Required	Analyze Immediately*	1000 ml
	Turbidity	Cool 4 C	48 hours	100 ml
B				
Plastic	Ammonia	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	250 ml
	Chemical Oxygen Demand (COD)	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	50 ml
	Hardness	H ₂ SO ₄ to pH<2 or D bottle	6 months	100 ml
	Kjeldahl Nitrogen	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	250 ml
	Organic Nitrogen	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	250 ml
	Organic, Carbon (TOC)	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	25 ml
	Phosphorus, Total	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	50 ml
D				
Plastic	Metals (except Chromium VI and Mercury)	HNO ₃ to pH<2	6 months	100 ml
	Hardness	HNO ₃ to pH<2	6 months	100 ml
E				
Glass	Oil & Grease	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	500 ml
F				
Glass	Mercury	HNO ₃ to pH<2	28 days	250 ml
G				

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Glass H	Phenol	Cool 4 C, H ₂ SO ₄ to pH<2	28 days	100 ml
Plastic I	Cyanide, Total and Amenable to Chlorination	Cool 4 C, NaOH to pH>12	14 days - If Sulfide is present 24 hours	500 ml 500 ml
Plastic L	Sulfide	Cool 4 C, Zinc Acetate and NaOH to pH>9	7 days	500 ml
Plastic	Total Coliform	Cool 4 C, 0.008% Na ₂ S ₂ O ₃	30 hours	100 ml
	Fecal Coliform	Cool 4 C, 0.008% Na ₂ S ₂ O ₃	6 hours	100 ml
Plastic	Radiological, Radium 226, 228, Gross alpha, Gross beta	Cool 4 C, HNO ₃ to pH<2 at lab		4 L
VOC Glass vials (3)	Volatile Organic Compounds	Ascorbic acid + HCl No bubbles		
SOC Amber Glass	Synthetic Organic Compounds Alachlor, Atrazine, Simizine	HCl to pH<2		
HAA5 Amber Glass	5 Haloacetic acids	NH ₄ CL		250 mL
TTHM Glass	Total trihalomethanes	same as VOC		

*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 regarding high/low level samples for necessary amounts.

References:

Federal Register 40CFR Part 36.3 (7/1/93 Edition) p331-333, Table II-Required Containers, Preservation Techniques, and Holding Times.

ETA Product News, April 1993, Drinking Water Sampling Guide.