

SAMPLE CONTAINERS, PRESERVATION, AND HOLDING TIMES

Parameter	Bottle/Cap	Amount of Sample		Preservative		Holding Time (Days) ^{1,2}	
		mL	grams	Water	Solid	Water	Solid
Alkalinity	Plastic/Plastic	200	50	>0-≤6° C	≤6° C	14	14/14 ²
Ammonia	Plastic/Plastic	400	50	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	28 ²
Biochemical Oxygen Demand (BOD)	Plastic/Plastic	1000	NA	>0-≤6° C	≤6° C	2	NA
Bromide	Plastic/Plastic	200	50	>0-≤6° C	≤6° C	28	28/28 ²
Chemical Oxygen Demand (COD)	Plastic/Plastic	50	NA	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	NA
Chloride	Plastic/Plastic	100	50	None Required	≤6° C	28	28/28 ²
Chlorine, Residual	Plastic/Plastic	100	NA	>0-≤6° C	NA	Onsite	NA
Chromium, hexavalent	Plastic/Plastic	500	400	>0-≤6° C	≤6° C	1	30/4
Coliform Bacteria	Sterile Plastic	250	NA	Na ₂ S ₂ O ₃ , <10° C	NA	6 hours	NA
Color	Plastic/Plastic	100	NA	>0-≤6° C	NA	2	NA
Cyanide, Total and Amenable	Plastic/Plastic	400	50	NaOH, >0-≤6° C	≤6° C	14	14
Dioxins/Furans (subcontracted)	Amber Glass/Teflon	4000	200	>0-≤6° C ³	≤6° C	30/44	30/45
Fluoride	Plastic/Plastic	150	50	>0-≤6° C	≤6° C	28	28/28 ²
Halogens, Total	Glass/Teflon	500	50	>0-≤6° C	≤6° C	28	28
Halogens, Total Organic (TOX) (subcontracted)	Amber Glass/Teflon	500	50	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	28
Hardness	Plastic/Plastic	100	NA	HNO ₃	NA	180	180
Herbicides (subcontracted)	Amber Glass/Teflon	4000	200	>0-≤6° C ³	≤6° C	7/40	14/40
Ignitability	Glass/Teflon	500	500	>0-≤6° C	≤6° C	14	14 ²
Mercury	Plastic/Plastic	300	50	HNO ₃	≤6° C	28	28
Metals, except Cr6 and Hg	Plastic/Plastic	200	50	HNO ₃	None	180	180
Methanol	VOA ⁴	80	50	>0-≤6° C	≤6° C	14	14
Nitrate-Nitrite	Plastic/Plastic	100	50	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	28/28 ²
Nitrite	Plastic/Plastic	200	NA	>0-≤6° C	NA	2	NA
Oil and Grease	Wide Mouth Glass	2000	100	HCl, >0-≤6° C	≤6° C	28	28
Organic Carbon, Total (TOC)	Plastic/Plastic	100	50	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	28
Orthophosphate	Plastic/Plastic	200	50	>0-≤6° C	≤6° C	2	14/2 ²
Pesticides/PCB's, Organochlorine	Amber Glass/Teflon	4000	200	>0-≤6° C ³	≤6° C	7/40	14/40
Petroleum Hydrocarbons (TPH)	VOA ⁴	160	50	HCl, >0-≤6° C	≤-12° C	7	14/14
Low Level Petroleum Hydrocarbons (TPH)	VOA ⁶	NA	20	NA	≤-12° C	NA	14/14
pH	Plastic/Plastic	100	50	>0-≤6° C	≤6° C	Onsite	14 ²
Phenols	Glass/Teflon	1000	50	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	28 ²
Phosphorous, Total	Plastic/Plastic	200	50	H ₂ SO ₄ , >0-≤6° C	≤6° C	28	28 ²
Reactivity	Glass/Teflon	50	50	>0-≤6° C	≤6° C	14	14 ²
Semivolatile Organics	Amber Glass/Teflon	4000	200	>0-≤6° C ³	≤6° C	7/40	14/40
Solids (TS, TDS, TSS, VSS)	Plastic/Plastic	2000	50	>0-≤6° C	≤6° C	7	14 ²
Specific Conductance	Plastic/Plastic	100	50	>0-≤6° C	≤6° C	28	28 ²
Sulfate	Plastic/Plastic	200	50	>0-≤6° C	≤6° C	28	28 ²
Sulfide	Plastic/Plastic	100	50	NaOH/ZnAc, >0-≤6° C	≤6° C	7	7
Sulfite	Plastic/Plastic	500	NA	EDTA, >0-≤6° C	NA	Onsite	NA
Surfactants (subcontracted)	Plastic/Plastic	1000	NA	>0-≤6° C	NA	2	NA
TCLP/SPLP Mercury	Glass/Teflon	500	200	>0-≤6° C	≤6° C	28/28	28/28
TCLP/SPLP Metals						180/180	180/180
TCLP/SPLP Semivolatiles	Glass/Teflon	4000	200	>0-≤6° C	≤6° C	14/7/40	14/7/40
TCLP/SPLP Volatiles ⁵	Glass/Teflon	120	100	>0-≤6° C	≤6° C	14/14	14/14
Low Level Volatile Organics, Solid (Method 5035/8260)	VOA ⁶	NA	15	NA	≤6° C	NA	14
Volatile Organics (Method 5030/624/8260)	VOA	120	100	HCl, >0-≤6° C ³	≤6° C	14	14

¹ When two values are given, the first is extraction holding time followed by analysis holding time.

² Denotes ECI holding time. Regulatory specification is either "As Soon as Possible" or not given.

³ Na₂S₂O₃ is added if samples contain residual chlorine.

⁴ VOA is a 40 mL glass vial with a Teflon-lined septa which can be filled with no headspace.

⁵ Samples for Volatiles analysis should be collected in a dedicated container. If additional parameters are to be analyzed on the same sample, at least two containers should be submitted for the analysis.

⁶ Use of the EnCore Sampler or equivalent: Collect 10 grams of sample into each vial for **TPH** and collect 5 grams of sample into each vial for **volatile organics**.

NOTE: A 4 oz. Soil jar is expected to hold at least 125 grams of sample in most cases.