

ENVIRONMENTAL SAMPLING GUIDE

Organic - Water					Organic - Soil/Solid Waste			
Parameter	Container Type	Maximum Holding Time	Minimum Sample Amount	Preservatives	Parameter	Container Type	Maximum Holding Time	Minimum Sample Amount
Oil and Grease (O&G)	Amber Glass	28 Days	1 Liter	HCl or H ₂ SO ₄ , 4°C	Oil and Grease (O&G)	Glass	28 Days	50 Grams
Petroleum Hydrocarbons, Total (TPH)	Amber Glass	28 Days	1 Liter	HCl or H ₂ SO ₄ , 4°C	Petroleum Hydrocarbons, Total (TPH)	Glass	28 Days	50 Grams
Inorganic - Water					Inorganic - Soil/Solid Waste			
Parameter	Container Type	Maximum Holding Time	Minimum Sample Amount	Preservatives	Parameter	Container Type	Maximum Holding Time	Minimum Sample Amount
Acidity (Acid)	Plastic	14 Days	100 mL	4°C	Ammonia (NH ₃)	Plastic	28 Days	100 Grams
Alkalinity (Alk)	Plastic	14 Days	100 mL	4°C	Anions (specify)	Plastic	-	200 Grams
Ammonia (NH ₃)	Plastic	28 Days	100 mL	H ₂ SO ₄ , 4°C	Cations (specify)	Plastic	6 Months	200 Grams
Biochemical Oxygen Demand (BOD)	Plastic	48 Hours	1 Liter	4°C	Cation Exchange Capacity (CEC)	Plastic	Analyze Immediately	200 Grams
Biochemical Oxygen Demand, Carbanaceous (CBOD)	Plastic	48 Hours	1 Liter	4°C	Chromium, Hexavalent (Cr6)	Plastic	30 Days	50 Grams
Bromide (Br)*	Plastic	28 Days	100 mL	None Required	Conductivity (Cond)	Plastic	28 Days	200 Grams
Chemical Oxygen Demand (COD)	Plastic	28 Days	50 mL	H ₂ SO ₄ , 4°C	Metals, Total Recoverable (Except Cr ⁶⁺ or Hg)	Plastic	6 Months	50 Grams
Chloride (Cl)	Plastic	28 Days	100 mL	None Required	Nitrogen, Kjeldahl and Organic (TKN)	Plastic	28 Days	50 Grams
Chlorine, Free Residual (FRC)	Plastic	Analyze Immediately	100 mL	None Required	Nitrogen, Total (TN)	Plastic	28 Days	50 Grams
Chlorine, Total Residual (TRC)	Plastic	Analyze Immediately	100 mL	None Required	pH, Hydrogen Ion (pH)	Plastic	Analyze Immediately	200 Grams
Chromium, Hexavalent (Cr6)	Plastic	24 Hours	100 mL	4°C	Phosphorus, Total Recoverable (TP)	Plastic	28 Days	100 Grams
Color	Plastic	48 Hours	50 mL	4°C	Sodium Adsorption Ratio (SAR)	Plastic	6 Months	50 Grams
Fluoride (F)	Plastic	28 Days	100 mL	None Required	Silica, Total Recoverable (TSi)	Plastic	28 Days	100 Grams
Hardness, Calcium (CaHard)	Plastic	6 Months	200 mL	HNO ₃	SPLP/TCLP Metals	Plastic	6 Months	200 Grams
Hardness, Total (Hard)	Plastic	6 Months	200 mL	HNO ₃				
Metals, Dissolved (Except Cr ⁶⁺ or Hg)	Plastic	6 Months	200 mL	Filter, HNO ₃				
Metals, Total Recoverable (Except Cr ⁶⁺ or Hg)	Plastic	6 Months	200 mL	HNO ₃				
Nitrate (NO ₃)	Plastic	48 Hours	100 mL	4°C				
Nitrate-Nitrite (NO ₃ +NO ₂)	Plastic	28 Days	100 mL	4°C				
Nitrite (NO ₂)	Plastic	48 Hours	100 mL	4°C				
Nitrogen, Kjeldahl and Organic (TKN)*	Plastic	28 Days	100 mL	H ₂ SO ₄ , 4°C				
Oxygen, Dissolved (DO)	Glass, BOD	Analyze Immediately	300 mL	None Required				
pH, Hydrogen Ion (pH)	Plastic	Analyze Immediately	25 mL	None Required				
Phosphate, Ortho (PO ₄)	Plastic	48 Hours	100 mL	Filter, 4°C				
Phosphorus, Total Dissolved (TDP)	Plastic	24 Hours	50 mL	Filter, HNO ₃ , 4°C				
Phosphorus, Total Recoverable (TP)	Plastic	28 Days	50 mL	HNO ₃ , 4°C				
Silica, Total Dissolved (TDSi)	Plastic	28 Days	50 mL	Filter, 4°C				
Silica, Total Recoverable (TSi)	Plastic	28 Days	50 mL	4°C				
Solids, Filterable (TDS)	Plastic	7 Days	100 mL	4°C				
Solids, Non-Filterable (TSS)	Plastic	7 Days	100 mL	4°C				
Solids, Settleable (SetSol)	Amber Glass	48 Hours	1 Liter	4°C				
Solids, Volatile (VolSol)	Plastic	7 Days	100 mL	4°C				
Solids, Total (TS)	Plastic	7 Days	100 mL	4°C				
Specific Conductance (Cond)	Plastic	28 Days	100 mL	4°C				
Sulfate (SO ₄)	Plastic	28 Days	100 mL	4°C				
Sulfide (S)	Plastic	7 Days	500 mL	NaOH, Zn(Ac), 4°C				
Temperature (Temp)	Plastic	Analyze Immediately	-	None Required				
Turbidity (Turb)	Plastic	48 Hours	100 mL	4°C				

* Certification pending, Only available in-house for non-regulatory purposes.

Other Analytes:

Other analytes are constantly being added/developed.
 Contact F.A.S.T. with any needed/desired analytical requirements.
 F.A.S.T. laboratories will gladly coordinate data and sub-contract to other central Arkansas laboratories for analytes not currently in place or certified for a nominal fee.

Certified Metals:

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Molybdenum
Barium	Nickel
Beryllium	Potassium
Boron	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Strontium
Cobalt	Thallium
Copper	Tin
Iron	Titanium
Lead	Vanadium
Lithium	Zinc