

ENVIRONMENTAL TESTING, INC.

www.etilab.com



Aqueous Sampling Guide

For assistance with your testing needs
please contact us at (405) 488-2400.

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Analysis	Container	Preservation	Hold Time
Wet Chemistry			
Acidity	250mL Plastic or Glass	Cool ≤6°C	14 days
Alkalinity	250mL Plastic or Glass	Cool ≤6°C	14 days
Ammonia	250mL Plastic or Glass	Cool ≤6°C; H ₂ SO ₄ to pH <2	28 days
BOD (Biochemical Oxygen Demand)	250mL Plastic or Glass	Cool ≤6°C	48 hours
Bromide	250mL Plastic or Glass	Not required	28 days
CBOD (Carbonaceous Biochemical Oxygen Demand)	250mL Plastic or Glass	Cool ≤6°C	48 hours
COD	250mL Plastic or Glass	Cool ≤6°C; H ₂ SO ₄ to pH <2	28 days
Chloride	250mL Plastic or Glass	Not required	28 days
Chlorine-Total Residual (TRC)	1L Amber Glass	Not required	15 minutes
Chromium, Hexavalent	250mL Plastic or Glass	Cool ≤6°C	24 hours
Cyanide	250mL Plastic or Glass	Cool ≤6°C; NaOH to pH >12	14 days
Fluoride	250mL Plastic	Not required	28 days
pH	250mL Plastic or Glass	Not required	15 minutes
Nitrate	250mL Plastic or Glass	Cool ≤6°C	48 hours
Nitrate/Nitrite	250mL Plastic or Glass	Cool ≤6°C	48 hours
Nitrite	250mL Plastic or Glass	Cool ≤6°C	48 hours
Oil and Grease	1L Amber Glass	Cool ≤6°C; HCl or H ₂ SO ₄ to pH <2	28 days
Orthophosphate	250mL Plastic or Glass	Cool ≤6°C	48 hours
Phenols, Total	500mL Amber Glass	Cool ≤6°C; H ₂ SO ₄ to pH <2	28 days
Phosphorus, Total	250mL Plastic or Glass	Cool ≤6°C; H ₂ SO ₄ to pH <2	28 days
Residue, Total (Total Solids TS)	250mL Plastic or Glass	Cool ≤6°C	7 days
Residue, Filterable (Total Dissolved Solids TDS)	250mL Plastic or Glass	Cool ≤6°C	7 days
Residue, Nonfilterable (Total Suspended Solids TSS)	250mL Plastic or Glass	Cool ≤6°C	7 days
Residue, Volatile (Volatile Solids VS)	250mL Plastic or Glass	Cool ≤6°C	7 days
Specific Conductance (Conductivity)	250mL Plastic or Glass	Cool ≤6°C	28 days
Sulfate	250mL Plastic or Glass	Cool ≤6°C	28 days
Sulfide	250mL Plastic or Glass	Cool ≤6°C; Zinc Acetate & NaOH to pH >9	7 days
Turbidity	250mL Plastic or Glass	Cool ≤6°C	48 hours
TKN (Total Kjeldahl Nitrogen)	250mL Plastic or Glass	Cool ≤6°C; H ₂ SO ₄ to pH <2	28 days
Metals			
All Metals (Except Boron, Hex-Chrom, and Mercury)	250mL Plastic or Glass	HNO ₃ ** to pH <2	6 months
TCLP Metals	250mL Plastic or Glass	Not required	6 months
Dissolved or Filtered Metals	250mL Plastic or Glass	Not required	28 days
Mercury	250mL Plastic or Glass	HNO ₃ to pH <2	28 days
Boron	250mL Plastic	HNO ₃ to pH <2	6 months
Organics			
BTEX	2-40mL Glass VOAs	Cool ≤6°C; HCl to pH <2	14 days
PCBs	1L Amber Glass	Cool ≤6°C	1 year
Pesticides	1L Amber Glass	Cool ≤6°C	7 days
Semivolatiles	1L Amber Glass	Cool ≤6°C	7 days
TPH-DRO	1L Amber Glass	Cool ≤6°C; HCl to pH <2	7 days
TPH-ERO	1L Amber Glass	Cool ≤6°C; HCl to pH <2	7 days
TPH-GRO	2-40mL Glass VOAs	Cool ≤6°C; HCl to pH <2	14 days
TPH-TX1005	2-40mL Glass VOAs	Cool ≤6°C; HCl to pH <2	7 days
Volatiles (except Acrolein & Acrylonitrile)	2-40mL Glass VOAs	Cool ≤6°C; HCl to pH <2	14 days
Acrolein & Acrylonitrile	2-40mL Glass VOAs	Cool ≤6°C	48 hours
Microbiology			
Coliform, Fecal	250mL Sterile Plastic	Cool ≤10°C; Na ₂ S ₂ O ₃	6 hours
Coliform, Total	250mL Sterile Plastic	Cool ≤10°C; Na ₂ S ₂ O ₃	6 hours
Total Plate Count (TPC)	250mL Sterile Plastic	Cool ≤10°C; Na ₂ S ₂ O ₃	6 hours

** HNO₃ to PH<2 at least 24 hours prior to analysis.

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Solid Sampling Guide

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Analysis	Container	Preservation	Hold Time
Wet Chemistry			
Ammonia	4oz Glass	≤6°C	28 days
Bromide	4oz Glass	Not Required	28 days
Chloride	4oz Glass	Not Required	28 days
Chromium, Hexavalent	4oz Glass	≤6°C	30 days
Cyanide	4oz Glass	≤6°C	14 days
Fluoride	4oz Glass	Not Required	28 days
pH	4oz Glass	Not Required	15 minutes
Nitrate	4oz Glass	≤6°C	48 Hours
Nitrate/Nitrite	4oz Glass	≤6°C	48 Hours
Nitrite	4oz Glass	≤6°C	48 Hours
Oil and Grease	4oz Glass	≤6°C	28 days
Orthophosphate	4oz Glass	≤6°C	48 Hours
Phosphorus, Total	4oz Glass	≤6°C	28 days
Specific Conductance (Conductivity)	4oz Glass	≤6°C	28 days
Sulfate	4oz Glass	≤6°C	28 days
Sulfide	4oz Glass	≤6°C; 2N Zinc Acetate until surface is moist	7 days
Total Soluble Salts	4oz Glass	≤6°C	28 days
Metals			
All Metals except Mercury and Hex-Chrome	4oz Glass	Not Required	6 Months
Mercury	4oz Glass	≤6°C	28 days
Organics			
BTEX	4oz Glass	≤6°C	14 days
BTEX -5035	40mL Glass VOA (pre weighed)	≤6°C; MeOH	14 days
PCBs	4oz Glass	Not Required	None
Pesticides	4oz Glass	≤6°C	14 days
Semivolatiles	4oz Glass	≤6°C	14 days
TPH-DRO OK	4oz Glass	≤6°C	7 days
TPH-DRO 8015	4oz Glass	≤6°C	14 days
TPH-ERO	4oz Glass	≤6°C	14 days
TPH-GRO	4oz Glass	≤6°C	14 days
TPH-GRO 5035	40mL Glass VOA (pre weighed)	≤6°C; MeOH	14 days
TPH-TX1005	4oz Glass	≤6°C	14 days
Volatiles	4oz Glass	≤6°C	14 days
Microbiology			
Coliform, Fecal	Sterile Plastic or Glass	Cool ≤10°C	6 hours
Coliform, Total	Sterile Plastic or Glass	Cool ≤10°C	6 hours
Total Plate Count (TPC)	Sterile Plastic or Glass	Cool ≤10°C	6 hours

** HNO3 to PH<2 at least 24 hours prior to analysis.

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