



Container Types, Preservation, and Handling Instructions

Analyte	Matrix	Bottle Types	Minimum Volume	Ideal Volume	Shipping Temperature	Holding Time to Preservation	Preservative	Storage	Holding Time to Analysis
Total Hg by EPA 1631	water	Borosilicate glass or Teflon	250 mL	500 mL	Ambient	28 days if preserving original bottle and no headspace	BrCl	Ambient	90 days
Methyl Hg by EPA 1630	water	Glass or Teflon	125 mL	250 mL	Chilled 4°C	48 hours	HCl or H ₂ SO ₄	Dark, < 4°C	6 months
Total recoverable or Total metals by ICP-MS	water	HDPE or Teflon	125 mL	250 mL	Ambient	2 weeks	HNO ₃	Ambient	6 months
Se and As by HG-AFS	water	HDPE or Teflon	125 mL	250 mL	Ambient	2 weeks	HNO ₃	Ambient	6 months
Metals by EPA 1640	water	HDPE or Teflon	500 mL	1000 mL	Ambient	2 weeks	HNO ₃	Ambient	6 months
Dissolved analytes by any of the above techniques	water	see above	see above	see above	Chilled 4°C	In the field or < 24 hours	Filtration, HNO ₃	see above	see above
Total Inorganic As by EPA 1632	water	HDPE	125 mL	250 mL	Chilled 4°C	24 hours	HCl	Ambient	Please contact us
As speciation	water	HDPE	125 mL	250 mL	Chilled 4°C	24 hours	Please contact us	Cryogenically frozen	Please contact us
Se speciation	water	HDPE	125 mL	250 mL	Chilled 4°C	24 hours	Please contact us	Cryogenically frozen	Please contact us
Cr(VI)	water	HDPE or Teflon	250 mL	500 mL	Chilled 4°C	In the field	NaOH to pH > 12	< 4°C or cryogenically frozen	28 Days
Total Fe by colorimetry	water	HDPE	125 mL	250 mL	Ambient	2 weeks	HNO ₃	Ambient	6 months
Fe(II) by colorimetry	water	HDPE	125 mL	250 mL	Chilled 4°C	In the field	HCl to pH < 2	< 4°C or cryogenically frozen	24 hours unless cryogenically frozen
All	solid	HDPE or borosilicate glass	5 g	4 oz/125 mL	Chilled 4°C	none	none	Freezer	6 months
Total Hg by EPA 30B or Appendix K	air	Sorbent Traps	Please contact us	Please contact us	Ambient	none	none	Ambient	6 months
Hg Speciation by FAMS	air	Sorbent Traps	Please contact us	Please contact us	Ambient	none	none	Ambient	6 months

HDPE - High Density Polyethylene
 HG-AFS - Hydride Generation Atomic Fluorescence Spectrometry
 ICP-MS - Inductively Coupled Plasma Mass Spectrometry

Please contact us for specifics on Hg in air sampling, speciation analysis, or for any other questions.

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