

## CONTAINER REQUIREMENTS

**NOTICE: DoD/ELAP and TNI require most samples to be received at 4°C +/- 2°C.** Samples delivered to the lab the same day as collection may not have chilled completely but must be maintained on ice during transit. Exceptions to the thermal preservation requirement include air samples, metals in soil, or metals in water appropriately preserved. Some samples additionally require chemical preservation as noted below. The holding times referenced assume proper preservation.

### WATER

**\*Contact the laboratory for low level analysis volume requirements\***

Parameter	Method	Container/Preservatives	Holding Time
1,2-Dibromoethane (EDB)	EPA 8011	(3) x 40 mL Glass VOA Vial / HCl	Analyze within 14 Days
Alkalinity	SM 2320B	250 mL Polyethylene	Analyze within 14 Days
Ammonia	SM 4500 NH <sub>3</sub> E, G	250 mL Polyethylene / H <sub>2</sub> SO <sub>4</sub>	Analyze within 28 Days
Anions - Br, Cl, F, SO <sub>4</sub> , N+N	EPA 300.0	250 mL Polyethylene	Analyze within 28 Days
Anions - NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub>	EPA 300.0	250 mL Polyethylene	Analyze within 48 Hours
Biological Oxygen Demand (BOD)	SM 5210B	500 mL Polyethylene	Analyze within 48 Hours
BTEX / Gasoline Range TPH	EPA 8260/NWTPH-Gx	(3) x 40 mL Glass VOA Vial / HCl	Analyze within 14 Days
Chemical Oxygen Demand (COD)	SM 5220D	250 mL Polyethylene / H <sub>2</sub> SO <sub>4</sub>	Analyze within 28 Days
Coliform: Fecal or Total	Colilert-18/SM 9223 B	110 mL Sterile / Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Analyze within 8 Hours
Enterococcus	SM 9230 D	110 mL Sterile / Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Analyze within 8 Hours
Cyanide, Total	SM 4500-CN C,E	250 mL Polyethylene / NaOH	Analyze within 14 Days
Diesel Range Organics	NWTPH-Dx /AK102-3	500 mL Amber Glass / HCl	Extract within 14 Days
Dissolved Organic Carbon	SM 5310B	(3) x 40 mL Glass VOA Vial / HCl (FF) <i>or</i> 250 mL Amber Glass (Lab filtration)	Analyze within 28 Days
Dissolved Oxygen	EPA 360.1	500 mL BOD Bottle (No Headspace)	Analyze Immediately
EPH	NWTPH-EPH	1 L Amber Glass / HCl	Extract within 14 Days
Ferrous Iron	SM3500-Fe B	500 mL Amber Glass / HCl / Protect from Sunlight / No Headspace	Analyze within 24 Hours
Herbicides	EPA 8151A 8270D	1 L Amber Glass	Extract within 7 Days
Hexavalent Chromium	SM3500 / SM 7196	250 mL Polyethylene	Analyze within 24 Hours
Ignitability / Flashpoint	ASTM D93/EPA 1010A	250 mL Amber Glass	Analyze within 28 Days
Langelier Index	SM 2330B	1 L Polyethylene	Analyze Immediately
Mercury (Hg)	EPA 245.1/7470	250 mL Polyethylene / HNO <sub>3</sub>	Analyze within 28 Days
Mercury (Hg), Low Level	EPA 1631	250 mL Amber Glass / BrCl	Analyze within 28 Days / Preserve within 48hrs if unpreserved
Metals, Dissolved (Except Mercury)	EPA 6020/200.8	250 mL Poly / HNO <sub>3</sub> (Field Filtered) <i>or</i> 250 mL Poly (request Lab Filtration)	Analyze within 6 Months <i>or</i> Filter and Preserve within 14 Days
Metals, Total (Except Mercury)	EPA 6020/200.8	250 mL Polyethylene / HNO <sub>3</sub>	Analyze within 6 Months
Methane, Ethane, and Ethene	RSK-175	(3) x 40 mL Glass VOA Vial / HCl	Analyze within 14 Days
Nitrogen, Kjeldahl	SM 4500N	500 mL Polyethylene / H <sub>2</sub> SO <sub>4</sub>	Analyze within 28 Days
Oil & Grease	EPA 1664	1 L Amber Glass / HCl	Analyze within 28 Days
PAHs	EPA 8270D SIM	500 mL Amber Glass	Extract within 7 Days
Pentachlorophenol	EPA 8151/8270D	500 mL Amber Glass	Extract within 7 Days
Pesticides	EPA 8081	500 mL Amber Glass	Extract within 7 Days
pH	SM 4500H+B	250 mL Polyethylene	Analyze Immediately
Phosphorus, Total	EPA 365.3	250 mL Amber Glass / H <sub>2</sub> SO <sub>4</sub>	Analyze within 28 Days
PCBs/Aroclor	EPA 8082 / EPA 608	500 mL Amber Glass	Unlimited
Residual Chlorine	SM 4500Cl	250 mL Amber / Protect from Sunlight	Analyze Immediately
Salinity	EPA 2520B	250 mL Polyethylene	Analyze within 28 Days
Semi Volatile Organic Compounds	EPA 8270 / EPA 625	1 L Amber Glass	Extract within 7 Days
<b>Solids</b>			
Settleable	SM 2540F	1 L Polyethylene	Analyze within 48 Hours
TDS, TSS, TS	SM 2540B/C/D/E	250 mL Polyethylene	Analyze within 7 Days
Specific Conductance (Conductivity)	SM 2510B	250 mL Polyethylene	Analyze within 28 Days
Sulfide	SM 4500-S <sup>2</sup> -D	250 mL Poly/ Zn Acetate + NaOH	Analyze within 7 Days
Soluble Sulfide	SM 4500-S <sup>2</sup> -D	250 mL Poly/ Zn Acetate	Analyze within 7 Days
Total Organic Carbon (TOC)	SM 5310B	(3) x 40 mL Glass VOA Vial / HCl	Analyze within 28 Days
Turbidity	EPA 180.1	250 mL Polyethylene	Analyze within 48 Hours
VOC	EPA 8260 / EPA 624	(3) x 40 mL Glass VOA Vial / HCl	Analyze within 14 Days
VPH	NWTPH-VPH	(3) x 40 mL Glass VOA Vial / HCl	Analyze within 14 Days

## SOIL

Parameter	Method	Container/Preservatives	Holding Time
Alkalinity	SM 2320B Modified	4 oz Glass Jar	Analyze within 14 Days
Anions - Br, Cl, F, SO <sub>4</sub>	EPA 300.0	4 oz Glass Jar	Analyze within 28 Days
Anions - NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub>	EPA 300.0	4 oz Glass Jar	Analyze within 28 Days
BTEX / Gasoline Range Hydrocarbons	EPA 8260/NWTPH-Gx	4 oz Glass Jar + (2) x 40 mL Glass VOA Vial w/ MeOH <sup>1</sup>	Analyze within 14 Days
Cation Exchange Capacity (CEC)	EPA 9081	4 oz Glass Jar	Analyze within 28 Days
Cyanide	SM 4500-CN C,E	4 oz Glass Jar	Extract within 28 Days
Diesel / Heavy Oil Range Organics	NWTPH-Dx/AK102-3	4 oz Glass Jar	Extract within 14 Days
EPH	NWTPH-EPH	4 oz Glass Jar	Extract within 14 Days
Grain Size	ASTM D422	32 oz Glass Jar	Analyze within 28 Days
Herbicides	EPA 8151A/8270	4 oz Glass Jar	Extract within 14 Days
Hexavalent Chromium	EPA 7196	4 oz Glass Jar	Analyze within 28 Days
Ignitability / Flashpoint	ASTM D93/SW 1010	4 oz Glass Jar	Analyze within 28 Days
Langelier Index / Corrosivity	SM 2330B	4 oz Glass Jar	Analyze within 7 Days
Mercury (Hg)	EPA 6020/7471	4 oz Glass Jar	Analyze within 28 Days
Metals (Except Mercury)	EPA 6020	4 oz Glass Jar	Analyze within 6 Months
Organic Material	ASTM D2974	4 oz Glass Jar	Analyze within 28 Days
PAHs	EPA 8270 SIM	4 oz Glass Jar	Extract within 14 Days
Pentachlorophenol	EPA 8151/8270	4 oz Glass Jar	Analyze within 14 Days
Pesticides	EPA 8081/8270	4 oz Glass Jar	Extract within 14 Days
pH	EPA 9045D	4 oz Glass Jar	Analyze within 7 Days
Phosphorus, Total	EPA 6020	4 oz Glass Jar	Analyze within 28 Days
PCBs/Aroclor	EPA 8082	4 oz Glass Jar	Unlimited
SVOC	EPA 8270	4 oz Glass Jar	Extract within 14 Days
Salinity	EPA 2520B	4 oz Glass Jar	Analyze within 28 Days
TCLP/SPLP - Metals	EPA 1311/1312	4 oz Glass Jar	Analyze within 180 Days (Hg = 28 Days)
TCLP/SPLP - ZHE	EPA 1311/1312	4 oz Glass Jar	Analyze within 14 Days
Total Organic Carbon	EPA 9060A	4 oz Glass Jar	Analyze within 28 Days
VOC	EPA 8260	4 oz Glass Jar + (2) x 40 mL Glass VOA Vial w/ MeOH <sup>1</sup>	Analyze within 14 Days
VPH	NWTPH-VPH	4 oz Glass Jar + (2) x 40 mL Glass VOA Vial w/ MeOH <sup>1</sup>	Analyze within 14 Days

<sup>1</sup> A field preservation kit is required for sample collection. Contact laboratory for more information.

## AIR

Parameter	Method	Container/Preservatives	Holding Time
VOC, Petroleum Fractionation (APH)	EPA TO-15/MASS APH	Tedlar® Bag	Analyze within 3 Days
		Canister / High Pressure Cylinder	Analyze within 30 Days
Siloxanes	ASTM D8230	Tedlar® Bag	Analyze within 3 Days
		Canister / High Pressure Cylinder	Analyze within 30 Days
Sulfur Compounds	ASTM D5504	Tedlar® Bag	Analyze within 24 Hours
		Canister / High Pressure Cylinder	Analyze within 7 Days
Major Gases/Fuel Params	EPA 3C/ASTM D1945	Tedlar® Bag	Analyze within 3 Days
		Canister / High Pressure Cylinder	Analyze within 30 Days
Helium	EPA Method 3C (MOD)	Tedlar® Bag	Analyze within 3 Days
		Canister / High Pressure Cylinder	Analyze within 30 Days
Metals	EPA 6020/NIOSH	Cassette	Analyze within 7 Days
Particulates	Gravimetric	PVC Cassette	Analyze within 7 Days
Ammonia	NIOSH	Sorbent Tube	Analyze within 7 Days
Mercury	NIOSH	Sorbent Tube	Analyze within 7 Days