

**Sample Containers, Preservation, Holding Times
(SOIL/SEDIMENT SAMPLES)**

Analytical Method ¹	Parameter/Fraction	Minimum Sample Volume ²	Sample Container ³	Sample Preservation ⁴	Holding Time
SW846/5035/8260B	Volatile Organic Compounds (VOCs) including BTEX, MTBE, and TBA <i>Terra Core Samplers</i> < 200 ug/kg >200 ug/kg or <i>EnCore samplers</i>	3- 40 ml vials	Glass vials with Teflon lined cap	1 g NaHSO ₄ and a magnetic stirring bar weighed to the nearest 0.01g.	14 days
		3- 40 ml vials	Glass vials with Teflon lined cap	5mL of methanol weight checked to the nearest 0.01g.	14 days
		3- EnCore samplers	EnCore samplers	Cool to ≤6°C	48 hours
SW846/5035/8015	Gasoline Range Organics (GRO) <i>Terra Core Samplers</i> < 200 ug/kg >200 ug/kg or <i>EnCore samplers</i> Diesel Range Organics (DRO)/Oil Range Organics (ORO)	3- 40 ml vials	Glass vials with Teflon lined cap	1 g NaHSO ₄ and a magnetic stirring bar weighed to the nearest 0.01g.	14 days
		3- 40 ml vials	Glass vials with Teflon lined cap	5mL of methanol weight checked to the nearest 0.01g.	14 days
		9 oz.	Glass container with Teflon lined cap	Cool to ≤6°C	48 hours
SW846/8310/8270	Polynuclear Aromatic Hydrocarbons (PAHs)	4 oz.	4 oz. wide-mouth glass with Teflon lined cap	Cool to ≤6°C	14 days
SW846/8270	Semi-volatile compounds (SVOCs)	4 oz.	4 oz. wide-mouth glass with Teflon lined cap	Cool to ≤6°C	14 days
SW846/1311/6010/7471	Toxicity Characteristic Leaching Procedure (TCLP) for metals	4 oz.	4 oz. wide-mouth glass with Teflon lined cap	Cool to ≤6°C	180 days
SW846/6010/7471	Total metals	4 oz.	4 oz. wide-mouth glass with Teflon lined cap	Cool to ≤6°C	180 days 28 days for Hg
SW846/8081	Pesticides	4 oz.	4 oz. wide-mouth glass with Teflon lined cap	Cool to ≤6°C	180 days
SW846/8082	Polychlorinated biphenyls (PCBs)	4 oz.	4 oz. wide-mouth glass with Teflon lined cap	Cool to ≤6°C	180 days

¹The most recently promulgated version of the SW846 method must be utilized.

²Additional volume is required when collecting quality assurance/quality control samples.

³All sample bottles must comply with the standards outlined in the following reference: U.S. EPA (Environmental Protection Agency). December 1992. *Specifications and Guidance for Contaminant-Free Sample Containers*. OSWER Directive #9240.0-05A, EPA 540/R-93/051. Office of Solid Waste and Emergency Response, Washington, DC.

⁴Cool sample to ≤ 6 °C, but without freezing the sample

**Sample Containers, Preservation, Holding Times
(AQUEOUS SAMPLES)**

Analytical Method ¹	Parameter/Fraction	Minimum Sample Volume ²	Sample Container ³	Sample Preservation ⁴	Holding Time
SW846/8260B	Volatile Organic Compounds (VOCs) including BTEX, MTBE, TBA, and GRO	2- 40 ml	40 ml VOC vial with Teflon lined septum.	Cool to ≤6°C; HCl to pH<2; no headspace	14 days until extraction; 40 days after extraction
SW846/8015	Diesel Range Organics (DRO)/Oil Range Organics (ORO)	2- 40 ml	40 ml VOC vial with Teflon lined septum.	Cool to ≤6°C	14 days until extraction; 40 days after extraction
SW846/8270	Polynuclear Aromatic Hydrocarbons (PAHs)	1 Liter	1 Liter amber glass with Teflon lined cap.	Cool to ≤6°C	7 days
SW846/8270	Semi-volatile compounds (SVOCs)	1 Liter	1 Liter amber glass with Teflon lined cap.	Cool to ≤6°C	7 days
SW846/8081	Pesticides & PCBs	1 Liter	1 Liter amber glass with Teflon lined cap.	Cool to ≤6°C	7 days
SW846/6010/7471	Total metals	1 Liter	1 Liter HDPE bottle with Teflon lined cap.	HNO ₃ to pH<2; Cool to ≤6°C	180 days (28 days Hg)

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²Additional volume is required when collecting quality assurance/quality control samples.

³All sample bottles must comply with the standards outlined in the following reference: U.S. EPA (Environmental Protection Agency). December 1992. *Specifications and Guidance for Contaminant-Free Sample Containers*. OSWER Directive #9240.0-05A, EPA 540/R-93/051. Office of Solid Waste and Emergency Response, Washington, DC.

⁴Cool sample to ≤ 6 °C, but without freezing the sample.