

SEMIVOLATILE ORGANICS SAMPLING CONTAINERS & HOLDING TIMES



Parameter	Matrix	Prep Method	Analytical Method	Holding Time ⁵	Minimum Volume	Water Sampling	
						Container	Preservative ⁷
TPH/Diesel ³	Water	EPA 3520	EPA 8015	14d ¹¹ / 40d ⁶	500 mL	2 x 500mL G	None
	Soil	EPA 3550	EPA 8015	14d/ 40d ⁶	50 g		
Creosote, coal tar	Water	EPA 3520	EPA 8270	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	EPA 3550	EPA 8270	14d/ 40d ⁶	30 g		
1,4-Dioxane	Water	EPA 3520	8270-SIM	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	EPA 3550	8270-SIM	14d/ 40d ⁶	30 g		
Dioxins & Furans	Water	METHOD ⁴	EPA 8280	30d/ 45 ⁶	1 L	1L G	None ⁸
	Soil	METHOD ⁴	EPA 8280	30d/ 45d ⁶	10 g		
Dioxins & Furans (Low Concentration)	Water	METHOD ⁴	EPA 8290	30d/ 45d ⁶	1 L	1L G	None ⁸
	Soil	METHOD ⁴	EPA 8290	30d/ 45d ⁶	10 g		
Explosives (Nitroaromatics & Nitramines)	Water	EPA 3535	EPA 8330	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	METHOD ⁴	EPA 8330	14d/ 40d ⁶	10 g		
Organochlorine Herbicides	Water	METHOD ⁴	EPA 8151	7d/ 40d ⁶	1 L	1L G	None
	TCLP Leachate	EPA 3520	EPA 8151	7d/ 40d ⁶	1 L		
	Soil	METHOD ⁴	EPA 8151	14d/ 40d ⁶	30 g		
Organochlorine Pesticides	Water	EPA 3520	EPA 8081	7d/ 40d ⁶	1 L	1L G	None
		EPA 608	EPA 608	7d/ 40d ⁶	1 L		
	TCLP Leachate	EPA 3520	EPA 8081	7d/ 40d ⁶	1 L	1L G	None
	Soil	EPA 3550	EPA 8081	14d/ 40d ⁶	30 g		
PCBs (Polychlorinated Biphenyl)	Water	EPA 3520	EPA 8082	7d/ 40d ⁶	1 L	1L G	None
		EPA 608	EPA 608	7d/ 40d ⁶	1 L		
	TCLP Leachate	EPA 3520	EPA 8082	7d/ 40d ⁶	1 L	1L G	None
	Soil	EPA 3550	EPA 8082	14d/ 40d ⁶	30 g		
Pentachlorophenol	Water	EPA 3520	EPA 8270	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	EPA 3550	EPA 8270	14d/ 40d ⁶	30 g		
Phenols (including cresols)	Water	EPA 3520	EPA 8270	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	EPA 3550	EPA 8270	14d/ 40d ⁶	30 g		
Phthalates	Water	EPA 3520	EPA 8270	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	EPA 3550	EPA 8270	14d/ 40d ⁶	30 g		

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Polynuclear Aromatic Hydrocarbons	Water	EPA 3520	8270-SIM	7d/ 40d ⁶	1 L	1L G	None ⁸
		EPA 3520	EPA 8310	7d/ 40d ⁶	1 L	1L G	None ⁸
	Soil	EPA 3550	8270-SIM	14d/ 40d ⁶	30 g		
		EPA 3550	EPA 8310	14d/ 40d ⁶	30 g		
Semivolatile Organics	Water	EPA 3520	EPA 8270	7d/ 40d ⁶	1 L	1L G	None ⁸
		EPA 625	EPA 625	7d/ 40d ⁶	1 L	1L G	None ⁸
	TCLP Leachate	EPA 3520	EPA 8270	7d/ 40d ⁶	1 L	1L G	None
	Soil	EPA 3550	EPA 8270	14d/ 40d ⁶	30 g		
TCLP Extraction for Semivolatiles	Soil	EPA 1311	Various	14 days	100 g ¹⁰		

Notes:

- Total Petroleum Hydrocarbons as Diesel; motor oil, commercial jet fuel, JP-5, hydraulic oil, or Bunker C fuel oil
May be added upon request. Reporting limits may be higher for fuels other than diesel.
- Holding time specified in 40CFR136 Table 2 (Clean Water Act/ NPDES 2016) and SW-846 Table 2-36 (1996)
- X / Y: X days from sample collection to extraction, then Y days from extraction to analysis.
- Samples should be kept at $\leq 6^{\circ}\text{C}$ from time of collection until analysis. Containers can be supplied by EA.
HCL: Hydrochloric Acid to pH < 2
ZnAc: Zinc Acetate
- Free chlorine should be neutralized with 0.008% $\text{Na}_2\text{S}_2\text{O}_3$ at time of sampling.
- 100g minimum for TCLP Extraction; 50g required for each analysis.
- California LUFT Manual allows a 14 day holding time for extraction of TPH-Diesel/Motor Oil from water samples, however for projects located outside California (or associated with a Federal or Department of Defense project), the holding time is 7 days.

Legend:

- mg/L milligrams per liter (ppm)
- $\mu\text{g/L}$ micrograms per liter (ppb)
- mg/Kg milligrams per kilogram (ppm)
- $\mu\text{g/Kg}$ micrograms per kilogram (ppb)
- VOA 40mL Amber VOA Vial
- G Amber Glass
- P Polyethylene
- Vial 20mL Amber RSK Vial