

Table 8-5. Laboratory QA/QC Requirements for Conventionals and COCs

Analysis Type	Method Blanks ¹	Replicates ¹	Triplicates ¹	CRM/RM	MS/MSD ¹	Surrogates ²
Semivolatiles ^{3,4}	X ⁵	X ⁶		X	X	X
Pesticides ^{3,4}	X ⁵	X ⁶		X	X	X
PCBs ^{3,4}	X ⁵	X ⁶		X ⁷	X	X
Metals	X	X		X	X	
Ammonia	X		X			
Total Sulfides	X		X			
Total Organic Carbon	X		X	X		
Total Solids			X			
Total Volatile Solids			X			
Grain Size			X			
Tributyltin	X	X ⁶			X	X
Dioxins/Furans	See Table 8-8					

Notes:

CRM = Certified Reference Material; RM = Reference Material; MS/MSD = matrix spike/matrix spike duplicate

¹ Frequency of Analysis (FOA) = 5 percent or one per batch, whichever is more frequent.

² Surrogate spikes required for every sample, including matrix spiked samples, blanks, and reference materials.

³ Initial calibrations required before any samples are analyzed, after each major disruption of equipment, and when ongoing calibration fails to meet criteria.

⁴ Ongoing calibration required at the beginning of each work shift, every 10–12 samples or every 12 hours (whichever is more frequent), and at the end of each shift.

⁵ FOA = one per extraction batch.

⁶ Matrix spike duplicates may be used.

⁷ The Puget Sound Sediment Reference Material must be used for projects in Puget Sound.