

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH) BY GC-FID OR GC-MS

SOP	Determinand	Water	Units	Soil	Units	SOP	Determinand	Water	Units	Soil	Units
1/2700 1/2800	naphthalene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	benzo[a]anthracene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	acenaphthylene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	chrysene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	acenaphthene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	benzo[b]fluoranthene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	fluorene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	benzo[k]fluoranthene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	phenanthrene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	benzo[a]pyrene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	anthracene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	dibenzo[ah]anthracene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	fluoranthene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	indeno[123-cd]pyrene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
1/2700 1/2800	pyrene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹	1/2700 1/2800	benzo[ghi]perylene	0.1/0.01*	µg l ⁻¹	0.1/0.01*	mg kg ⁻¹
	low level					1/2700 1/2800	total PAH	2/0.2	µg l ⁻¹	2/0.2*	mg kg ⁻¹

TPH BY GC-FID WITH OPTIONAL CARBON BANDING (e.g. GRO/DRO/LRO)

1/2670	Total Petroleum Hydrocarbons C ₆ -C ₄₀	10	µg l ⁻¹	10	mg kg ⁻¹	1/2670	TPH C ₁₀ -C ₂₁	5	µg l ⁻¹	5	mg kg ⁻¹
1/2670	TPH C ₆ -C ₁₀	5	µg l ⁻¹	5	mg kg ⁻¹	1/2670	TPH C ₂₁ -C ₄₀	5	µg l ⁻¹	5	mg kg ⁻¹

TPH ALIPHATIC/AROMATIC SPLIT WITH CARBON BANDING

1/2675	aliphatic >C ₅ -C ₆	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₅ -C ₇	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₆ -C ₈	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₇ -C ₈	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₈ -C ₁₀	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₈ -C ₁₀	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₁₀ -C ₁₂	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₁₀ -C ₁₂	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₁₂ -C ₁₆	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₁₂ -C ₁₆	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₁₆ -C ₂₁	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₁₆ -C ₂₁	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₂₁ -C ₃₅	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₂₁ -C ₃₅	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	aliphatic >C ₃₅ -C ₄₄	0.1	µg l ⁻¹	0.1	mg kg ⁻¹	1/2675	aromatic >C ₃₅ -C ₄₄	0.1	µg l ⁻¹	0.1	mg kg ⁻¹
1/2675	total aliphatic hydrocarbons	5	µg l ⁻¹	10	mg kg ⁻¹	1/2675	total aromatic hydrocarbons	5	µg l ⁻¹	10	mg kg ⁻¹
						1/2675	total petroleum hydrocarbons (TPH)	10	µg l ⁻¹	20	mg kg ⁻¹