

Users are advised to consult the Canadian Environmental Quality Guidelines introductory text, factsheet, and/or protocols for specific information and implementation guidance pertaining to each environmental quality guideline.

Phenanthrene

Synonyms and/or acronyms: PAHs

Parameter 1: ORGANIC

Parameter 2: Polyaromatic compounds

Parameter 3: Polycyclic aromatic hydrocarbons

Water Quality for the Protection of Aquatic Life

Freshwater

Concentration (µg/L)	0.4
Interim guideline.	
Date	1999

Marine

Concentration (µg/L)	Insufficient data
Date	1999

Water Quality for the Protection of Agriculture

Irrigation

Concentration (µg/L)	No data
Date	No data

Livestock

Concentration (µg/L)	No data
Date	No data

Sediment Quality for the Protection of Aquatic Life

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

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Factsheet](#)

Freshwater

Concentration (µg/kg dry weight) - ISQG				41.9
	Guideline	% ≤ ISQG	ISQG < % < PEL	ISQG % ≥ PEL
	Polycyclic aromatic hydrocarbons (PAHs)			
	Benz(a)anthracene	13	6	38

Benzo(a)pyrene	11	16	30
Chrysene	8	14	25
Fluoranthene	8	23	49
Phenanthrene	4	17	44
Pyrene	7	16	32
Concentration (µg/kg dry weight) - PEL			515
Guideline	% ≤ ISQG	ISQG < % < PEL	ISQG % ≥ PEL
Polycyclic aromatic hydrocarbons (PAHs)			
Benz(a)anthracene	13	6	38
Benzo(a)pyrene	11	16	30
Chrysene	8	14	25
Fluoranthene	8	23	49
Phenanthrene	4	17	44
Pyrene	7	16	32
Date			1998

Marine

Concentration (µg/kg dry weight) - ISQG			86.7
Guideline	% ≤ ISQG	ISQG < % < PEL	ISQG % ≥ PEL
Polycyclic aromatic hydrocarbons (PAHs)			
Acenaphthene	8	29	57
Acenaphthylene	7	14	51
Anthracene	9	20	75
Benz(a)anthracene	9	16	78
Benzo(a)pyrene	8	22	71
Chrysene	9	19	72
Dibenz(a,h)anthracene	16	12	65
Fluoranthene	10	20	80
Fluorene	12	20	70
2-Methylnaphthalene	0	23	82
Naphthalene	3	19	71
Phenanthrene	8	23	78
Pyrene	7	19	83
Concentration (µg/kg dry weight) - PEL			544
Guideline	% ≤ ISQG	ISQG < % < PEL	ISQG % ≥ PEL
Polycyclic aromatic hydrocarbons (PAHs)			
Acenaphthene	8	29	57
Acenaphthylene	7	14	51
Anthracene	9	20	75
Benz(a)anthracene	9	16	78
Benzo(a)pyrene	8	22	71
Chrysene	9	19	72
Dibenz(a,h)anthracene	16	12	65
Fluoranthene	10	20	80
Fluorene	12	20	70
2-Methylnaphthalene	0	23	82

Naphthalene	3	19	71
Phenanthrene	8	23	78
Pyrene	7	19	83
Date	1998		

Soil Quality for the Protection of Environmental and Human Health

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

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[Factsheet](#)

Concentration (mg/kg dry weight) - Agricultural

[Consult Factsheet](#)

Consult the 2008 Polycyclic Aromatic Hydrocarbons factsheet, or the 2008 PAH Scientific Supporting Document (http://www.ccme.ca/publications/ceqg_rcqe.html?category_id=125) for guidance.

Concentration (mg/kg dry weight) - Residential / parkland

[Consult Factsheet](#)

Consult the 2008 Polycyclic Aromatic Hydrocarbons factsheet, or the 2008 PAH Scientific Supporting Document (http://www.ccme.ca/publications/ceqg_rcqe.html?category_id=125) for guidance.

Concentration (mg/kg dry weight) - Commercial

[Consult Factsheet](#)

Consult the 2008 Polycyclic Aromatic Hydrocarbons factsheet, or the 2008 PAH Scientific Supporting Document (http://www.ccme.ca/publications/ceqg_rcqe.html?category_id=125) for guidance.

Concentration (mg/kg dry weight) - Industrial

[Consult Factsheet](#)

Consult the 2008 Polycyclic Aromatic Hydrocarbons factsheet, or the 2008 PAH Scientific Supporting Document (http://www.ccme.ca/publications/ceqg_rcqe.html?category_id=125) for guidance.

Date

2008

Tissue Residue Quality for the Protection of Wildlife Consumer of Aquatic Biota

Concentration (µg/kg diet wet weight)

No data

Date

No data