

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.

		Water Quality Guidelines for the Protection of Aquatic Life					
		Freshwater			Marine		
		Concentration (µg/L)	Concentration (µg/L)	Date	Concentration (µg/L)	Concentration (µg/L)	Date
Chemical name	Chemical groups	Short Term	Long Term		Short Term	Long Term	
1,1,1-Trichloroethane CASRN 71556	Organic Halogenated aliphatic compounds Chlorinated ethanes	<i>No data</i>	Insufficient data	1991	<i>No data</i>	Insufficient data	1991
1,1,2,2- Tetrachloroethene PCE (Tetrachloroethylene) CASRN 127184	Organic Halogenated aliphatic compounds Chlorinated ethenes	<i>No data</i>	110	1993	<i>No data</i>	Insufficient data	1993
1,1,2,2-Tetrachlorethane CASRN 79345	Organic Halogenated aliphatic compounds Chlorinated ethanes	<i>No data</i>	Insufficient data	1991	<i>No data</i>	Insufficient data	1991
1,1,2-Trichloroethene TCE (Trichloroethylene) CASRN 79-01-6	Organic Halogenated aliphatic compounds Chlorinated ethenes	<i>No data</i>	21	1991	<i>No data</i>	Insufficient data	1991
1,2,3,4-Tetrachlorobenzene CASRN 634662	Organic Monocyclic aromatic compounds Chlorinated benzenes	<i>No data</i>	1.8	1997	<i>No data</i>	Insufficient data	1997
1,2,3,5-Tetrachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	<i>No data</i>	Insufficient data	1997	<i>No data</i>	Insufficient data	1997
1,2,3-Trichlorobenzene CASRN 87616	Organic Monocyclic aromatic compounds Chlorinated benzenes	<i>No data</i>	8	1997	<i>No data</i>	Insufficient data	1997
1,2,4,5-Tetrachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	<i>No data</i>	Insufficient data	1997	<i>No data</i>	Insufficient data	1997
1,2,4-Trichlorobenzene	Organic Monocyclic aromatic compounds	<i>No data</i>	24	1997	<i>No data</i>	5.4	1997

CASRN 120801	Chlorinated benzenes						
1,2-Dichlorobenzene CASRN 95501	Organic Monocyclic aromatic compounds Chlorinated benzenes	No data	0.7	1997	No data	42	1997
1,2-Dichloroethane CASRN 1070602	Organic Halogenated aliphatic compounds Chlorinated ethanes	No data	100	1991	No data	Insufficient data	1991
1,3,5-Trichlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	No data	Insufficient data	1997	No data	Insufficient data	1997
1,3-Dichlorobenzene CASRN 541731	Organic Monocyclic aromatic compounds Chlorinated benzenes	No data	150	1997	No data	Insufficient data	1997
1,4-Dichlorobenzene CASRN 106467	Organic Monocyclic aromatic compounds Chlorinated benzenes	No data	26	1997	No data	Insufficient data	1997
1,4-Dioxane		NRG	NRG	2008	NRG	NRG	2008
3-Iodo-2-propynyl butyl carbamate IPBC CASRN 55406-53-6	Organic Pesticides Carbamate pesticides	No data	1.9	1999	No data	No data	No data
Acenaphthene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	5.8	1999	No data	Insufficient data	1999
Acenaphthylene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	No data	1999	No data	No data	1999
Acridine PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	4.4	1999	No data	Insufficient data	1999
Aldicarb CASRN 116063	Organic Pesticides Carbamate pesticides	No data	1	1993	No data	0.15	1993
Aldrin	Organic Pesticides Organochlorine compounds	No data	<del>0.004</del>	1987	No data	No data	No data
Aluminium	Inorganic Metals	No data	Variable	1987	No data	No data	No data

Ammonia (total)	Inorganic Inorganic nitrogen compounds	No data	Table	2001	No data	No data	No data
Ammonia (un-ionized) CASRN 7664417	Inorganic Inorganic nitrogen compounds	No data	19	2001	No data	No data	No data
Aniline CASRN 62533	Organic	No data	2.2	1993	No data	Insufficient data	1993
Anthracene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	0.012	1999	No data	Insufficient data	1999
Arsenic CASRN none	Inorganic Metals	No data	5	1997	No data	12.5	1997
Aspen Mcintosh (Test) Violet Hayden CASRN Rerum eaque incididunt lorem incididunt exercitationem et aliqua Repudiandae corrupti	Impedit laborum quia cupiditate nulla ullam qui assumenda rerum inventore et optio laboriosam deserunt Vitae expedita sint sunt ratione delectus sequi voluptas delectus laboriosam amet ullam placeat rerum molestias aut natus asperiores voluptates Sed culpa voluptatem Dicta aliquam voluptatem qui	123	Veniam ut eligendi consequatur Aut illum molestiae in aliquid	12- Aug- 1989	324	Ea accusamus sit vero officia aspernatur reprehenderit aut inventore nobis minima ipsam vero velit sed alias blanditiis ut adipisci qui	13- Nov- 1988
Atrazine CASRN 1912249	Organic Pesticides Triazine compounds	No data	1.8	1989	No data	No data	No data
Benz(a)anthracene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	0.018	1999	No data	Insufficient data	1999
Benzene CASRN 71432	Organic Monocyclic aromatic compounds	No data	370	1999	No data	110	1999
Benzo(a)pyrene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	0.015	1999	No data	Insufficient data	1999
Beryllium	Inorganic Metals	No data	No data	2015- 02-23	No data	No data	2015- 02-23
Boron	Inorganic Metals	29,000µg/L or 29mg/L	1,500µg/L or 1.5mg/L	2009	NRG	NRG	2009

Bromacil CASRN 314409	Organic Pesticides	<i>No data</i>	5	1997	<i>No data</i>	Insufficient data	1997
Bromoxynil	Organic Pesticides Benzonitrile compounds	<i>No data</i>	5	1993	<i>No data</i>	Insufficient data	1993
Cadmium CASRN 7440439	Inorganic Metals	1.0	0.09	2014	NRG	0.12	2014
Captan CASRN 133062	Organic Pesticides	<i>No data</i>	1.3	1991	<i>No data</i>	<i>No data</i>	<i>No data</i>
Carbamazepine 5H-Dibenzo[b,f]azepine-5- carboxamide; CBZ		NRG	10	2018	NRG	NRG	2018
Carbaryl CASRN 63252	Organic Pesticides Carbamate pesticides	3.3	0.2	2009	5.7	0.29	2009
Carbofuran CASRN 1564662	Organic Pesticides Carbamate pesticides	<i>No data</i>	1.8	1989	<i>No data</i>	<i>No data</i>	<i>No data</i>
Chlordane	Organic Pesticides Organochlorine compounds	<i>No data</i>	<del>0.006</del>	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Chloride	Inorganic	640,000 µg/L or 640 mg/L	120,000 µg/L or 120 mg/L	2011	NRG	NRG	2011
Chlorothalonil CASRN 1897456	Organic Pesticides	<i>No data</i>	0.18	1994	<i>No data</i>	0.36	1994
Chlorpyrifos CASRN 2921882	Organic Pesticides Organophosphorus compounds	0.02	0.002	2008	NRG	0.002	2008
Chromium, hexavalent (Cr(VI)) CASRN 7440473	Inorganic Metals	<i>No data</i>	1	1997	<i>No data</i>	1.5	1997
Chromium, trivalent (Cr(III))	Inorganic Metals	<i>No data</i>	8.9	1997	<i>No data</i>	56	1997

CASRN 7440473							
Chrysene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	Insufficient data	1999	No data	Insufficient data	1999
Colour CASRN N/A	Physical	No data	Narrative	1999	No data	Narrative	1999
Copper	Inorganic Metals	No data	Equation	1987	No data	No data	No data
Cyanazine CASRN 2175462	Organic Pesticides Triazine compounds	No data	2	1990	No data	No data	No data
Cyanide	Inorganic	No data	5 (as free CN)	1987	No data	No data	No data
Debris CASRN N/A	Physical	No data	No data	No data	No data	Narrative	1996
Deltamethrin CASRN 52918635	Organic Pesticides	No data	0.0004	1997	No data	Insufficient data	1997
Deposited bedload sediment	Physical Turbidity, clarity and suspended solids Total particulate matter	No data	Insufficient data	1999	No data	Insufficient data	1999
Di(2-ethylhexyl) phthalate CASRN 117817	Organic Phthalate esters	No data	16	1993	No data	Insufficient data	1993
Di-n-butyl phthalate CASRN 84742	Organic Phthalate esters	No data	19	1993	No data	Insufficient data	1993
Di-n-octyl phthalate CASRN 117840	Organic Phthalate esters	No data	Insufficient data	1993	No data	Insufficient data	1993
Dibromochloromethane	Organic Halogenated aliphatic compounds Halogenated methanes	No data	Insufficient data	1992	No data	Insufficient data	1992
Dicamba CASRN 1918009	Organic Pesticides Aromatic Carboxylic Acid	No data	10	1993	No data	No data	No data

Dichloro diphenyl trichloroethane; 2,2-Bis(p-chlorophenyl)-1,1,1- trichloroethane DDT (total)	Organic Pesticides Organochlorine compounds	No data	0.001	1987	No data	No data	No data
Dichlorobromomethane	Organic Halogenated aliphatic compounds Halogenated methanes	No data	Insufficient data	1992	No data	Insufficient data	1992
Dichloromethane Methylene chloride CASRN 75092	Organic Halogenated aliphatic compounds Halogenated methanes	No data	98.1	1992	No data	Insufficient data	1992
Dichlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	No data	0.2	1987	No data	No data	No data
Diclofop-methyl CASRN 51338273	Organic Pesticides	No data	6.1	1993	No data	No data	No data
Didecyl dimethyl ammonium chloride DDAC CASRN 7173515	Organic Pesticides	No data	1.5	1999	No data	Insufficient data	1999
Diethylene glycol CASRN 111466	Organic Glycols	No data	Insufficient data	1997	No data	Insufficient data	1997
Diisopropanolamine DIPA CASRN 110974	Organic	No data	1600	2005	No data	Insufficient data	2005
Dimethoate CASRN 60515	Organic Pesticides Organophosphorus compounds	No data	6.2	1993	No data	Insufficient data	1993
Dinoseb CASRN 88857	Organic Pesticides	No data	0.05	1992	No data	No data	No data
Dissolved gas supersaturation CASRN N/A	Physical	No data	Narrative	1999	No data	Narrative	1999
Dissolved oxygen DO CASRN N/A	Inorganic	No data	Variable	1999	No data	>8000 & Narrative	1996

Endosulfan	Organic Pesticides Organochlorine compounds	0.06	0.003	2010	0.09	0.002	2010
Endrin	Organic Pesticides Organochlorine compounds	<i>No data</i>	<del>0.0023</del>	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Ethylbenzene CASRN 100414	Organic Monocyclic aromatic compounds	<i>No data</i>	90	1996	<i>No data</i>	25	1996
Ethylene glycol CASRN 107211	Organic Glycols	<i>No data</i>	192 000	1997	<i>No data</i>	Insufficient data	1997
Fluoranthene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	<i>No data</i>	0.04	1999	<i>No data</i>	Insufficient data	1999
Fluorene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	<i>No data</i>	3	1999	<i>No data</i>	Insufficient data	1999
Fluoride	Inorganic	<i>No data</i>	120	2002	<i>No data</i>	NRG	2002
Fluoride CASRN 7782414	Inorganic	<i>No data</i>	120	2002	<i>No data</i>	<i>No data</i>	2002
Glyphosate CASRN 1071836	Organic Pesticides Organophosphorus compounds	27,000	800	2012	NRG	NRG	2012
Heptachlor Heptachlor epoxide	Organic Pesticides Organochlorine compounds	<i>No data</i>	<del>0.01</del>	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Hexachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	<i>No data</i>	Insufficient data	1997	<i>No data</i>	Insufficient data	1997
Hexachlorobutadiene HCB CASRN 87683	Organic Halogenated aliphatic compounds	<i>No data</i>	1.3	1999	<i>No data</i>	<i>No data</i>	<i>No data</i>
Hexachlorocyclohexane Lindane	Organic Pesticides Organochlorine compounds	<i>No data</i>	0.01	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>

Imidacloprid CASRN 13826413		<i>No data</i>	0.23	2007	<i>No data</i>	0.65	2007
Inorganic Mercury CASRN 7439976	Inorganic	<i>No data</i>	0.026	2003	<i>No data</i>	0.016	2003
Iron	Inorganic Metals	<i>No data</i>	300	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Lead	Inorganic Metals	<i>No data</i>	Equation	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Linuron CASRN 41205214	Organic Pesticides	<i>No data</i>	7	1995	<i>No data</i>	<i>No data</i>	1995
Mercury CASRN 7439976	Inorganic Metals	<i>No data</i>	0.026	2003	<i>No data</i>	0.016	2003
Methoprene CASRN 40596698		<i>No data</i>	0.09 (Target Organism Management value: 0.53)	2007	<i>No data</i>	Insufficient data	2007
Methyl tertiary-butyl ether MTBE CASRN 1634044	Organic Non-halogenated aliphatic compounds Aliphatic ether	<i>No data</i>	10 000	2003	<i>No data</i>	5 000	2003
Methylchlorophenoxyacetic acid (4-Chloro-2-methyl phenoxy acetic acid; 2-Methyl-4-chloro phenoxy acetic acid) MCPA CASRN 94746	Organic Pesticides	<i>No data</i>	2.6	1995	<i>No data</i>	4.2	1995
Methylmercury	Organic	<i>No data</i>	0.004	2003	<i>No data</i>	NRG	2003
Metolachlor CASRN 51218452	Organic Pesticides Organochlorine compounds	<i>No data</i>	7.8	1991	<i>No data</i>	<i>No data</i>	<i>No data</i>
Metribuzin CASRN 21087649	Organic Pesticides Triazine compounds	<i>No data</i>	1	1990	<i>No data</i>	<i>No data</i>	<i>No data</i>



Molybdenum	Inorganic Metals	No data	73	1999	No data	No data	No data
Monobromomethane Methyl bromide	Organic Halogenated aliphatic compounds Halogenated methanes	No data	Insufficient data	1992	No data	Insufficient data	1992
Monochlorobenzene CASRN 108907	Organic Monocyclic aromatic compounds Chlorinated benzenes	No data	1.3	1997	No data	25	1997
Monochloromethane Methyl chloride	Organic Halogenated aliphatic compounds Halogenated methanes	No data	Insufficient data	1992	No data	Insufficient data	1992
Monochlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	No data	7	1987	No data	No data	No data
Naphthalene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	1.1	1999	No data	1.4	1999
Nickel	Inorganic Metals	No data	Equation	1987	No data	No data	No data
Nitrate CASRN 14797-55-8	Inorganic Inorganic nitrogen compounds	550,000 µg/L or 550 mg/L	13,000 µg/L or 13 mg/L	2012	1,500,000 µg/L or 1500 mg/L	200,000 µg/L or 200 mg/L	2012
Nitrite	Inorganic Inorganic nitrogen compounds	No data	60 NO <sub>2</sub> -N	1987	No data	No data	No data
Nonylphenol and its ethoxylates CASRN 84852153	Organic Nonylphenol and its ethoxylates	No data	1	2002	No data	0.7	2002
Norman Merrill Lael Mccray CASRN Voluptate esse quae esse nihil ab tempor consequatur Vel irure eum quibusdam est ut alias aliquid	Sequi ad veniam voluptas pariatur odio dolore ex eum rerum sed voluptas dolores omnis voluptatem Facilis praesentium et sit fugiat dui Velit nulla quod quae et cum aut ratione in ad quasi eius ipsum a libero rerum mollit voluptates fuga Anim	Pariatur Do sed est vel veniam magnam alias vel sit in totam dolore	Laborum architecto harum nemo ut dolorem iste quam	09-Oct-1978	Do necessitatibus dolores quibusdam dicta ullam	Et molestiae doloribus eius cillum veritatis est commodi minim incididunt sunt dui	27-Sep-2000
Nutrients		No data	Guidance Framework	2004	No data	Guidance framework	2007

Pentachlorobenzene CASRN 608935	Organic Monocyclic aromatic compounds Chlorinated benzenes	No data	6	1997	No data	Insufficient data	1997
Pentachlorophenol PCP	Organic Monocyclic aromatic compounds Chlorinated phenols	No data	0.5	1987	No data	No data	No data
Permethrin CASRN 52645531	Organic Pesticides Organochlorine compounds	No data	0.004	2006	No data	0.001	2006
Phenanthrene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	0.4	1999	No data	Insufficient data	1999
Phenols (mono- & dihydric) CASRN 108952	Organic Aromatic hydroxy compounds	No data	4	1999	No data	No data	No data
Phenoxy herbicides 2,4 D; 2,4-Dichlorophenoxyacetic acid	Organic Pesticides	No data	4	1987	No data	No data	No data
Phosphorus	Inorganic	No data	Guidance Framework	2004	No data	Guidance Framework	2007
Picloram CASRN 1918021	Organic Pesticides	No data	29	1990	No data	No data	No data
Polychlorinated biphenyls PCBs	Organic Polyaromatic compounds Polychlorinated biphenyls	No data	<del>0.001</del>	1987	No data	<del>0.01</del>	1991
Propylene glycol CASRN 57556	Organic Glycols	No data	500 000	1997	No data	Insufficient data	1997
Pyrene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	0.025	1999	No data	Insufficient data	1999
pH	Inorganic Acidity, alkalinity and pH	No data	6.5 to 9.0	1987	No data	7.0 to 8.7 & Narrative	1996
Quinoline PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	No data	3.4	1999	No data	Insufficient data	1999

Reactive Chlorine Species total residual chlorine, combined residual chlorine, total available chlorine, hypochlorous acid, chloramine, combined available chlorine, free residual chlorine, free available chlorine, chlorine-produced oxidants	Inorganic Reactive chlorine compounds	<i>No data</i>	0.5	1999	<i>No data</i>	0.5	1999
Salinity	Physical	<i>No data</i>	<i>No data</i>	<i>No data</i>	<i>No data</i>	Narrative	1996
Selenium	Inorganic Metals	No data	1	1987	No data	No data	No data
Silver	Inorganic Metals	NRG	0.25	2015	7.5	NRG	2015
Simazine CASRN 122349	Organic Pesticides Triazine compounds	<i>No data</i>	10	1991	<i>No data</i>	No data	<i>No data</i>
Sodium adsorption ratio SAR		<i>No data</i>	<i>No data</i>	<i>No data</i>	<i>No data</i>	<i>No data</i>	<i>No data</i>
		<b>Concentration (µg/L)</b>	<b>Concentration (µg/L)</b>	<b>Date</b>	<b>Concentration (µg/L)</b>	<b>Concentration (µg/L)</b>	<b>Date</b>
<b>Chemical name</b>	<b>Chemical groups</b>	<b>Short Term</b>	<b>Long Term</b>		<b>Short Term</b>	<b>Long Term</b>	
Streambed substrate	Physical Turbidity, clarity and suspended solids Total particulate matter	<i>No data</i>	Narrative	1999	<i>No data</i>	Narrative	1999
Styrene CASRN 100425	Organic Monocyclic aromatic compounds	<i>No data</i>	72	1999	<i>No data</i>	<i>No data</i>	<i>No data</i>
Sulfolane Bondelane CASRN 126330	Organic Organic sulphur compound	<i>No data</i>	50 000	2005	<i>No data</i>	Insufficient data	2005
Suspended sediments TSS	Physical Turbidity, clarity and suspended solids Total particulate matter	<i>No data</i>	Narrative	1999	<i>No data</i>	Narrative	1999
TESTonium TEST		1231	No data	2018-03-14	213	12312	2018-03-06
Tebuthiuron	Organic Pesticides	<i>No data</i>	1.6	1995	<i>No data</i>	Insufficient data	1995

CASRN 34014181							
Temperature	Physical Temperature	<i>No data</i>	Narrative	1987	<i>No data</i>	Narrative	1996
Test test CASRN casrn	Par1 par2 par3	30	long	No data	50	100	No data
Tetrachloromethane Carbon tetrachloride CASRN 56235	Organic Halogenated aliphatic compounds Halogenated methanes	<i>No data</i>	13.3	1992	<i>No data</i>	Insufficient data	1992
Tetrachlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	<i>No data</i>	1	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Thallium	Inorganic Metals	No data	0.8	1999	No data	No data	No data
Toluene CASRN 108883	Organic Monocyclic aromatic compounds	<i>No data</i>	2	1996	<i>No data</i>	215	1996
Toxaphene	Organic Pesticides Organochlorine compounds	<i>No data</i>	<del>0.008</del>	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Triallate CASRN 2303175	Organic Pesticides Carbamate pesticides	<i>No data</i>	0.24	1992	<i>No data</i>	<i>No data</i>	<i>No data</i>
Tribromomethane Bromoform	Organic Halogenated aliphatic compounds Halogenated methanes	<i>No data</i>	Insufficient data	1992	<i>No data</i>	Insufficient data	1992
Tributyltin	Organic Organotin compounds	<i>No data</i>	0.008	1992	<i>No data</i>	0.001	1992
Trichlorfon CASRN 52-68-6		1.1	0.009	2012	NRG	NRG	2012
Trichloromethane Chloroform CASRN 67663	Organic Halogenated aliphatic compounds Halogenated methanes	<i>No data</i>	1.8	1992	<i>No data</i>	Insufficient data	1992
Trichlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	<i>No data</i>	18	1987	<i>No data</i>	<i>No data</i>	<i>No data</i>
Tricyclohexyltin	Organic	<i>No data</i>	Insufficient data	1992	<i>No data</i>	Insufficient data	1992

	Organotin compounds						
Trifluralin CASRN 1582098	Organic Pesticides Dinitroaniline pesticides	No data	0.2	1993	No data	No data	No data
Triphenyltin	Organic Organotin compounds	No data	0.022	1992	No data	No data	1992
Turbidity	Physical Turbidity, clarity and suspended solids Total particulate matter	No data	Narrative	1999	No data	Narrative	1999
Uranium CASRN 7440-61-1	Inorganic Metals	33	15	2011	NRG	NRG	2011
Zinc	Inorganic Metals	No data	30	1987	No data	No data	No data

Chemical name	Chemical groups
Sodium adsorption ratio SAR	