

Atlantic RBCA - Ecological Tier II Pathway-Specific Standards (PSS) for Soil - Residential / Parkland Land Use (mg/kg)

Land Use	Residential / Parkland				
Pathway	Soil Contact			Soil and Food Ingestion	
Parameter	Fine	Coarse	Reference	Fine/Coarse	Reference
<b>Inorganic Parameters</b>					
Aluminum	-	-		-	
Antimony	20	20	AEP, 2019	25	MOECC, 2011
Arsenic	17.1	17.1	CCME	51	MOECC, 2011
Barium	500	500	AEP, 2019	390	MOECC, 2011
Beryllium	5	5	AEP, 2019	13	MOECC, 2011
Boron (Total)	-	-		120	MOECC, 2011
Boron (mg/L in saturated paste extract)	3.3	3.3	AEP, 2019	-	
Cadmium	10	10	CCME	1.9	MOECC, 2011
Chromium (hexavalent)	0.4	0.4	AEP, 2019	160	MOECC, 2011
Chromium (total)	64	64	CCME	910	MOECC, 2011
Cobalt	20	20	AEP, 2019	180	MOECC, 2011
Copper	63	63	CCME	770	MOECC, 2011
Cyanide	0.9	0.9	CCME	0.11	MOECC, 2011
Iron	-	-		-	
Lead	300	300	CCME	32	MOECC, 2011
Manganese	-	-		-	
Mercury (total)	12	12	CCME	20	MOECC, 2011
Molybdenum	4	4	AEP, 2019	6.9	MOECC, 2011
Nickel	45	45	CCME	5000	MOECC, 2011
Selenium	1	1	CCME	2.4	MOECC, 2011
Silver	20	20	AEP, 2019	-	
Strontium	-	-		-	
Thallium	1.4	1.4	CCME	3.9	MOECC, 2011
Tin	5	5	AEP, 2019	-	
Uranium	500	500	CCME	33	MOECC, 2011
Vanadium	130	130	CCME	18	MOECC, 2011
Zinc	250	250	CCME	340	MOECC, 2011
<b>General Chemistry Parameters</b>					
Chloride	350	350	BC MOECCS Schedule 3.1	-	
Sodium	200	200	BC MOECCS Schedule 3.1	-	
<b>Petroleum Hydrocarbons (PHC) Parameters</b>					
Benzene	60	31	ARBCA, 2021	370	MOECC, 2011
Toluene	110	75	ARBCA, 2021	90	MOECC, 2011
Ethylbenzene	120	55	ARBCA, 2021	140	MOECC, 2011
Xylene	65	95	ARBCA, 2021	96	MOECC, 2011
F1 (C6-C10)	210	210	ARBCA, 2021	-	
F2 (C10-C16)	150	150	ARBCA, 2021	-	
F3 (C16-C34)	1300	300	ARBCA, 2021	-	
F4 (C34-C50)	5600	2800	ARBCA, 2021	-	
MTBE	31	25	MOECC, 2011	-	
<b>Polycyclic Aromatic Hydrocarbons (PAH) Parameters</b>					
<b>Non-Carcinogenic PAH Compounds</b>					
Naphthalene	0.75	0.6	MOECC, 2011	8.8	CCME
1 - Methyl-naphthalene	-	-		-	
2 - Methyl-naphthalene	-	-		-	
Acenaphthene	-	-		21.5	CCME
Acenaphthylene	-	-		-	
Anthracene	2.5	2.5	CCME	61.5	CCME
Fluoranthene	50	50	CCME	15.4	CCME

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Fluorene	-	-		15.4	CCME
Phenanthrene	7.8	6.2	MOECC, 2011	43	CCME
Pyrene	-	-		7.7	CCME
<b>Carcinogenic PAH Compounds</b>					
<b>BaP Total Potency Equivalents</b>					
Benz[a]anthracene	0.63	0.5	MOECC, 2011	6.2	CCME
Benzo[a]pyrene	20	20	CCME	0.6	CCME
Benzo[b,j,k]fluoranthene isomers	9.5	7.6	MOECC, 2011	6.2	CCME
Benzo[g,h,i]perylene	8.3	6.6	MOECC, 2011	-	
Chrysene	8.8	7	MOECC, 2011	6.2	CCME
Dibenz[a,h]anthracene	-	-		-	
Indeno[1,2,3-c,d]pyrene	0.48	0.38	MOECC, 2011	-	
<b>Volatile Organic Compound (VOC) Parameters</b>					
Bromodichloromethane	-	-		-	
Bromoform	-	-		-	
Bromomethane	-	-		-	
Carbon Tetrachloride (Tetrachloromethane)	7.3	5.8	MOECC, 2011	7.6	MOECC, 2011
Chlorobenzene	7.5	6	MOECC, 2011	-	
Chloroethane	-	-		-	
Chloroform	43	34	MOECC, 2011	81	MOECC, 2011
Chloromethane	-	-		-	
Dibromochloromethane	-	-		-	
1,2-Dichlorobenzene	4.3	3.4	MOECC, 2011	-	
1,3-Dichlorobenzene	6	4.8	MOECC, 2011	-	
1,4-Dichlorobenzene	4.5	3.6	MOECC, 2011	-	
1,1-Dichloroethane	11	8.4	MOECC, 2011	-	
1,2-Dichloroethane	60	48	MOECC, 2011	29	MOECC, 2011
1,1-Dichloroethylene	63	50	MOECC, 2011	43	MOECC, 2011
cis-1,2-Dichloroethylene	-	-		84	MOECC, 2011
trans-1,2-Dichloroethylene	-	-		84	MOECC, 2011
1,2-Dichloropropane	31	25	MOECC, 2011	-	
1,3-Dichloropropane	31	25	MOECC, 2011	-	
Ethylene Dibromide	-	-		-	
Methylene Chloride (Dichloromethane)	0.98	0.78	MOECC, 2011	350	MOECC, 2011
Styrene	22	17	MOECC, 2011	-	
1,1,1,2-Tetrachloroethane	-	-		-	
1,1,1,2-Tetrachloroethane	-	-		-	
Tetrachloroethylene	15	15	BC MOECCS Schedule 3.1	4.5	MOECC, 2011
1,1,1-Trichloroethane	22	18	MOECC, 2011	820	MOECC, 2011
1,1,2-Trichloroethane	100	80	MOECC, 2011	-	
Trichloroethylene	3	3	AEP, 2019	8.1	MOECC, 2011
Vinyl Chloride	4.3	3.4	MOECC, 2011	12	MOECC, 2011
<b>Pesticides</b>					
Aldicarb	-	-		-	
Aldrin	0.055	0.044	MOECC, 2011	0.0024	MOECC, 2011
Atrazine	-	-		-	
Azinphos-methyl	-	-		-	
Bendiocarb	-	-		-	
Bromoxynil	-	-		-	
Carbaryl	-	-		-	

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Carbofuran	-	-	-	-	-	-
Chlorothalonil	-	-	-	-	-	-
Chlorpyrifos	-	-	-	-	-	-
Cyanazine	-	-	-	-	-	-
2,4-D	-	-	-	-	-	-
DDT	12	12	CCME	0.7	CCME	
Diazinon	-	-	-	-	-	-
Dicamba	-	-	-	-	-	-
Dichlorop-methyl	-	-	-	-	-	-
Dieldrin	0.055	0.044	MOECC, 2011	0.0024	MOECC, 2011	
Dimethoate	-	-	-	-	-	-
Dinoseb	-	-	-	-	-	-
Diquat	-	-	-	-	-	-
Diuron	-	-	-	-	-	-
Endosulfan	0.19	0.15	MOECC, 2011	0.023	MOECC, 2011	
Endrin	0.024	0.019	MOECC, 2011	0.0011	MOECC, 2011	
Glyphosate	-	-	-	-	-	-
Heptachlor	0.25	0.2	MOECC, 2011	3.9	MOECC, 2011	
Lindane	-	-	-	-	-	-
Linuron	-	-	-	-	-	-
Malathion	-	-	-	-	-	-
MCPA	-	-	-	-	-	-
Methoxychlor	-	-	-	0.13	MOECC, 2011	
Metolachlor	-	-	-	-	-	-
Metribuzin	-	-	-	-	-	-
Paraquat	-	-	-	-	-	-
Parathion	-	-	-	-	-	-
Phorate	-	-	-	-	-	-
Picloram	-	-	-	-	-	-
Simazine	-	-	-	-	-	-
Tebuthiuron	0.046	0.046	AEP, 2019	-	-	-
Terbufos	-	-	-	-	-	-
Toxaphene	-	-	-	-	-	-
Triallate	-	-	-	-	-	-
Trifluralin	-	-	-	-	-	-
<b>PFAS Substances</b>						
Perfluorooctanoic acid (PFOA)	-	-	-	-	-	-
Perfluorooctane sulfonate (PFOS)	11	11	ECCC, 2017	0.01	ECCC, 2017	
Perfluorobutanoate (PFBA)	-	-	-	-	-	-
Perfluorobutane sulfonate (PFBS)	-	-	-	-	-	-
Perfluorohexanesulfonate (PFHxS)	-	-	-	-	-	-
Perfluoropentanoate (PFPeA)	-	-	-	-	-	-
Perfluorohexanoate (PFHxA)	-	-	-	-	-	-
Perfluoroheptanoate (PFHpA)	-	-	-	-	-	-
Perfluorononanoate (PFNA)	-	-	-	-	-	-
<b>Other Parameters</b>						
Polychlorinated Biphenyls (Total PCB)	33	33	CCME	1.3	CCME	
Dioxins and Furans (TEQ) (mg TEQ/kg)	0.001	0.001	BC MOECCS Schedule 3.1	0.000013	MOECC, 2011	
Pentachlorophenol (PCP)	11	11	CCME	0.013	MOECC, 2011	
Organotin - Tributyltin	-	-	-	-	-	-

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Ethylene Glycol	1100	1100	AEP, 2019	-	
Propylene Glycol	NGR	NGR	CCME	-	
Phenol	20	20	CCME	9.4	MOECC, 2011

Notes:

All values in mg/kg unless otherwise noted.

NGR=no guideline required. CCME applies the NGR designation to substances that were considered for ecological soil quality guideline derivation, but were deemed to not require such a guideline. This can be due to various reasons including substance physical-chemical, environmental fate and behaviour and toxicological properties, which may partially or collectively indicate a substance will not occur to any significant extent in soil and/or will not pose an ecological risk if it does occur in soil.

"-" indicates no ecological soil quality guideline was identified.