

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

Land Use	Commercial / Industrial				
Pathway	Soil Contact			Soil and Food Ingestion	
Parameter	Fine	Coarse	Reference	Fine/Coarse	Reference
Inorganic Parameters					
Aluminum	-	-		-	
Antimony	40	40	AEP, 2019	1500	MOECC, 2011
Arsenic	26	26	CCME	330	MOECC, 2011
Barium	2000	2000	AEP, 2019	670	MOECC, 2011
Beryllium	8	8	AEP, 2019	780	MOECC, 2011
Boron (Total)	-	-		120	MOECC, 2011
Boron (mg/L in saturated paste extract)	7.9	7.9	AEP, 2019	-	
Cadmium	22	22	CCME	1.9	MOECC, 2011
Chromium (hexavalent)	1.4	1.4	AEP, 2019	8500	MOECC, 2011
Chromium (total)	87	87	CCME	160	MOECC, 2011
Cobalt	300	300	AEP, 2019	180	MOECC, 2011
Copper	91	91	CCME	3100	MOECC, 2011
Cyanide	8	8	CCME	0.11	MOECC, 2011
Iron	-	-		-	
Lead	600	600	CCME	32	MOECC, 2011
Manganese	-	-		-	
Mercury (total)	50	50	CCME	20	MOECC, 2011
Molybdenum	40	40	AEP, 2019	74	MOECC, 2011
Nickel	89	89	CCME	5400	MOECC, 2011
Selenium	2.9	2.9	CCME	1200	MOECC, 2011
Silver	40	40	AEP, 2019	490	MOECC, 2011
Strontium	-	-		-	
Thallium	3.6	3.6	CCME	47	MOECC, 2011
Tin	300	300	AEP, 2019	-	
Uranium	2000	2000	CCME	33	MOECC, 2011
Vanadium	130	130	CCME	18	MOECC, 2011
Zinc	360	360	CCME	340	MOECC, 2011
General Chemistry Parameters					
Chloride	2500	2500	BC MOECCS Schedule 3.1	-	
Sodium	1000	1000	BC MOECCS Schedule 3.1	-	
Petroleum Hydrocarbons (PHC) Parameters					
Benzene	310	180	ARBCA, 2021	6800	MOECC, 2011
Toluene	330	250	ARBCA, 2021	14000	MOECC, 2011
Ethylbenzene	430	300	ARBCA, 2021	38000	MOECC, 2011
Xylene	230	350	ARBCA, 2021	47000	MOECC, 2011
F1 (C6-C10)	320	320	ARBCA, 2021	-	
F2 (C10-C16)	260	260	ARBCA, 2021	-	
F3 (C16-C34)	2500	1700	ARBCA, 2021	-	
F4 (C34-C50)	6600	3300	ARBCA, 2021	-	
MTBE	63	50	MOECC, 2011	-	
Polycyclic Aromatic Hydrocarbons (PAH) Parameters					
Non-Carcinogenic PAH Compounds					
Naphthalene	28	22	MOECC, 2011	1300	MOECC, 2011
1 - Methylnaphthalene	-	-		-	
2 - Methylnaphthalene	-	-		-	
Acenaphthene	-	-		46,000	MOECC, 2011
Acenaphthylene	-	-		-	
Anthracene	32	32	CCME	47,000	MOECC, 2011
Fluoranthene	180	180	CCME	120,000	MOECC, 2011
Fluorene	-	-		-	
Phenanthrene	16	12	MOECC, 2011	36,000	MOECC, 2011
Pyrene	-	-		99,000	MOECC, 2011

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Carcinogenic PAH Compounds					
BaP Total Potency Equivalents					
Benzo[a]anthracene	1.3	1	MOECC, 2011	-	
Benzo[a]pyrene	72	72	CCME	46,000	MOECC, 2011
Benzo[b,j,k]fluoranthene isomers	19	15	MOECC, 2011	-	
Benzo[g,h,i]perylene	17	13	MOECC, 2011	-	
Chrysene	18	14	MOECC, 2011	-	
Dibenz[a,h]anthracene	-	-		-	
Indeno[1,2,3-c,d]pyrene	0.95	0.76	MOECC, 2011	-	
Volatile Organic Compound (VOC) Parameters					
Bromodichloromethane	-	-		-	
Bromoform	-	-		-	
Bromomethane	-	-		-	
Carbon Tetrachloride (Tetrachloromethane)	15	12	MOECC, 2011	880	MOECC, 2011
Chlorobenzene	15	12	MOECC, 2011	-	
Chloroethane	-	-		-	
Chloroform	85	68	MOECC, 2011	830	MOECC, 2011
Chloromethane	-	-		-	
Dibromochloromethane	-	-		-	
1,2-Dichlorobenzene	8.5	6.8	MOECC, 2011	-	
1,3-Dichlorobenzene	12	9.6	MOECC, 2011	-	
1,4-Dichlorobenzene	9	7.2	MOECC, 2011	-	
1,1-Dichloroethane	21	17	MOECC, 2011	-	
1,2-Dichloroethane	120	96	MOECC, 2011	29	MOECC, 2011
1,1-Dichloroethylene	130	100	MOECC, 2011	760	MOECC, 2011
cis-1,2-Dichloroethylene	-	-		940	MOECC, 2011
trans-1,2-Dichloroethylene	-	-		940	MOECC, 2011
1,2-Dichloropropane	63	50	MOECC, 2011	-	
1,3-Dichloropropane	63	50	MOECC, 2011	-	
Ethylene Dibromide	-	-		-	
Methylene Chloride (Dichloromethane)	2	1.6	MOECC, 2011	400	MOECC, 2011
Styrene	43	34	MOECC, 2011	-	
1,1,1,2-Tetrachloroethane	-	-		-	
1,1,2,2-Tetrachloroethane	-	-		-	
Tetrachloroethylene	30	30	BC MOECCS Schedule 3.1	310	MOECC, 2011
1,1,1-Trichloroethane	44	35	MOECC, 2011	39,000	MOECC, 2011
1,1,2-Trichloroethane	200	160	MOECC, 2011	-	
Trichloroethylene	50	50	CCME	390	MOECC, 2011
Vinyl Chloride	8.5	6.8	MOECC, 2011	12	MOECC, 2011
Pesticides					
Aldicarb	-	-		-	
Aldrin	0.11	0.088	MOECC, 2011	1200	MOECC, 2011
Atrazine	-	-		-	
Azinphos-methyl	-	-		-	
Bendiocarb	-	-		-	
Bromoxynil	-	-		-	
Carbaryl	-	-		-	
Carbofuran	-	-		-	
Chlorothalonil	-	-		-	
Chlorpyrifos	-	-		-	
Cyanazine	-	-		-	
2,4-D	-	-		-	
DDT	12	12	CCME	0.0012	MOECC, 2011
Diazinon	-	-		-	

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Dicamba	-	-		-	
Dichlorop-methyl	-	-		-	
Dieldrin	0.11	0.088	MOECC, 2011	240	MOECC, 2011
Dimethoate	-	-		-	
Dinoseb	-	-		-	
Diquat	-	-		-	
Diuron	-	-		-	
Endosulfan	0.38	0.3	MOECC, 2011	1.2	MOECC, 2011
Endrin	0.048	0.038	MOECC, 2011	0.0011	MOECC, 2011
Glyphosate	-	-		-	
Heptachlor	0.5	0.4	MOECC, 2011	1100	MOECC, 2011
Lindane	-	-		-	
Linuron	-	-		-	
Malathion	-	-		-	
MCPA	-	-		-	
Methoxychlor	-	-		4100	MOECC, 2011
Metolachlor	-	-		-	
Metribuzin	-	-		-	
Paraquat	-	-		-	
Parathion	-	-		-	
Phorate	-	-		-	
Picloram	-	-		-	
Simazine	-	-		-	
Tebuthiuron	0.60	0.60	AEP, 2019	-	
Terbufos	-	-		-	
Toxaphene	-	-		-	
Triallate	-	-		-	
Trifluralin	-	-		-	
PFAS Substances					
Perfluorooctanoic acid (PFOA)	-	-		-	
Perfluorooctane sulfonate (PFOS)	61	61	ECCC, 2017	-	
Perfluorobutanoate (PFBA)	-	-		-	
Perfluorobutane sulfonate (PFBS)	-	-		-	
Perfluorohexanesulfonate (PFHxS)	-	-		-	
Perfluoropentanoate (PFPeA)	-	-		-	
Perfluorohexanoate (PFHxA)	-	-		-	
Perfluoroheptanoate (PFHpA)	-	-		-	
Perfluorononanoate (PFNA)	-	-		-	
Other Parameters					
Polychlorinated Biphenyls (Total PCB)	33	33	CCME	1.1	MOECC, 2011
Dioxins and Furans (TEQ) (mg TEQ/kg)	0.0025	0.0025	BC MOECCS Schedule 3.1	0.000099	MOECC, 2011
Pentachlorophenol (PCP)	28	28	CCME	2000	MOECC, 2011
Organotins - Tributyltin	-	-		-	
Ethylene Glycol	1800	1800	AEP, 2019	-	
Propylene Glycol	NGR	NGR	CCME	-	
Phenol	128	128	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.