

**Atlantic RBCA - Ecological Tier I Environmental Quality Standards (EQS) for Soil - All Land Use (mg/kg)**

Land Use	Agricultural		Residential / Parkland		Commercial / Industrial	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
<b>Inorganic Parameters</b>						
Aluminum	-	-	-	-	-	-
Antimony	20	20	20	20	40	40
Arsenic	17.1	17.1	17.1	17.1	26	26
Barium	400	400	390	390	670	670
Beryllium	5	5	5	5	8	8
Boron (Total)	120	120	120	120	120	120
Boron (mg/L in saturated paste extract)	3.3	3.3	3.3	3.3	7.9	7.9
Cadmium	3.8	3.8	1.9	1.9	1.9	1.9
Chromium (hexavalent)	0.4	0.4	0.4	0.4	1.4	1.4
Chromium (total)	64	64	64	64	87	87
Cobalt	20	20	20	20	180	180
Copper	63	63	63	63	91	91
Cyanide	0.9	0.9	0.11	0.11	0.11	0.11
Iron	-	-	-	-	-	-
Lead	70	70	32	32	32	32
Manganese	-	-	-	-	-	-
Mercury (total)	12	12	12	12	20	20
Molybdenum	4	4	4	4	40	40
Nickel	45	45	45	45	89	89
Selenium	1	1	1	1	2.9	2.9
Silver	20	20	20	20	40	40
Strontium	-	-	-	-	-	-
Thallium	1	1	1.4	1.4	3.6	3.6
Tin	5	5	5	5	300	300
Uranium	33	33	33	33	33	33
Vanadium	18	18	18	18	18	18
Zinc	200	200	250	250	340	340
<b>General Chemistry Parameters</b>						
Chloride	350	350	350	350	2500	2500
Sodium	200	200	200	200	1000	1000
<b>Petroleum Hydrocarbons (PHC) Parameters</b>						
Benzene	18	18	60	31	310	180
Toluene	110	75	90	75	330	250
Ethylbenzene	120	55	120	55	430	300
Xylene	65	95	65	95	230	350
F1 (C6-C10)	210	210	210	210	320	320
F2 (C10-C16)	150	150	150	150	260	260
F3 (C16-C34)	1300	300	1300	300	2500	1700
F4 (C34-C50)	5600	2800	5600	2800	6600	3300
MTBE	31	25	31	25	63	50
<b>Polycyclic Aromatic Hydrocarbons (PAH) Parameters</b>						
<b>Non-Carcinogenic PAH Compounds</b>						
Naphthalene	0.75	0.6	0.75	0.6	28	22
1 - Methyl-naphthalene	-	-	-	-	-	-
2 - Methyl-naphthalene	-	-	-	-	-	-
Acenaphthene	21.5	21.5	21.5	21.5	46000	46000
Acenaphthylene	-	-	-	-	-	-
Anthracene	2.5	2.5	2.5	2.5	32	32
Fluoranthene	15.4	15.4	15.4	15.4	180	180
Fluorene	15.4	15.4	15.4	15.4	-	-
Phenanthrene	7.8	6.2	7.8	6.2	16	12
Pyrene	7.7	7.7	7.7	7.7	99000	99000
<b>Carcinogenic PAH Compounds</b>						
<b>BaP Total Potency Equivalents</b>						
Benz[a]anthracene	0.63	0.5	0.63	0.5	1.3	1
Benzo[a]pyrene	0.6	0.6	0.6	0.6	72	72
Benzo[b,j,k]fluoranthene isomers	6.2	6.2	6.2	6.2	19	15
Benzo[g,h,i]perylene	8.3	6.6	8.3	6.6	17	13
Chrysene	6.2	6.2	6.2	6.2	18	14
Dibenz[a,h]anthracene	-	-	-	-	-	-
Indeno[1,2,3-c,d]pyrene	0.48	0.38	0.48	0.38	0.95	0.76

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<b>Volatile Organic Compound (VOC) Parameters</b>						
Bromodichloromethane	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-
Bromomethane	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	7.3	5.8	7.3	5.8	15	12
Chlorobenzene	7.5	6	7.5	6	15	12
Chloroethane	-	-	-	-	-	-
Chloroform	43	34	43	34	85	68
Chloromethane	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-
1,2-Dichlorobenzene	4.3	3.4	4.3	3.4	8.5	6.8
1,3-Dichlorobenzene	6	4.8	6	4.8	12	9.6
1,4-Dichlorobenzene	4.5	3.6	4.5	3.6	9	7.2
1,1-Dichloroethane	11	8.4	11	8.4	21	17
1,2-Dichloroethane	29	29	29	29	29	29
1,1-Dichloroethylene	43	43	43	43	130	100
cis-1,2-Dichloroethylene	84	84	84	84	940	940
trans-1,2-Dichloroethylene	84	84	84	84	940	940
1,2-Dichloropropane	31	25	31	25	63	50
1,3-Dichloropropene	31	25	31	25	63	50
Ethylene Dibromide	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	0.98	0.78	0.98	0.78	2	1.6
Styrene	22	17	22	17	43	34
1,1,1,2-Tetrachloroethane	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-
Tetrachloroethylene	4.5	4.5	4.5	4.5	30	30
1,1,1-Trichloroethane	22	18	22	18	44	35
1,1,2-Trichloroethane	100	80	100	80	200	160
Trichloroethylene	3	3	3	3	50	50
Vinyl Chloride	4.3	3.4	4.3	3.4	8.5	6.8
<b>Pesticides</b>						
Aldicarb	-	-	-	-	-	-
Aldrin	0.0024	0.0024	0.0024	0.0024	0.11	0.088
Atrazine	-	-	-	-	-	-
Azinphos-methyl	-	-	-	-	-	-
Bendiocarb	-	-	-	-	-	-
Bromoxynil	-	-	-	-	-	-
Carbaryl	-	-	-	-	-	-
Carbofuran	-	-	-	-	-	-
Chlorothalonil	-	-	-	-	-	-
Chlorpyrifos	-	-	-	-	-	-
Cyanazine	-	-	-	-	-	-
2,4-D	-	-	-	-	-	-
DDT	0.7	0.7	0.7	0.7	0.0012	0.0012
Diazinon	-	-	-	-	-	-
Dicamba	-	-	-	-	-	-
Dichlorop-methyl	-	-	-	-	-	-
Dieldrin	0.00096	0.00096	0.0024	0.0024	0.11	0.088
Dimethoate	-	-	-	-	-	-
Dinoseb	-	-	-	-	-	-
Diquat	-	-	-	-	-	-
Diuron	-	-	-	-	-	-
Endosulfan	0.023	0.023	0.023	0.023	0.38	0.3
Endrin	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Glyphosate	-	-	-	-	-	-
Heptachlor	0.25	0.2	0.25	0.2	0.5	0.4
Lindane	-	-	-	-	-	-
Linuron	-	-	-	-	-	-
Malathion	-	-	-	-	-	-
MCPA	-	-	-	-	-	-
Methoxychlor	0.13	0.13	0.13	0.13	4100	4100
Metolachlor	-	-	-	-	-	-
Metribuzin	-	-	-	-	-	-
Paraquat	-	-	-	-	-	-
Parathion	-	-	-	-	-	-
Phorate	-	-	-	-	-	-
Picloram	-	-	-	-	-	-

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Simazine	-	-	-	-	-	-
Tebuthiuron	0.046	0.046	0.046	0.046	0.6	0.6
Terbufos	-	-	-	-	-	-
Toxaphene	-	-	-	-	-	-
Triallate	-	-	-	-	-	-
Trifluralin	-	-	-	-	-	-
<b>PFAS Substances</b>						
Perfluorooctanoic acid (PFOA)	-	-	-	-	-	-
Perfluorooctane sulfonate (PFOS)	0.01	0.01	0.01	0.01	61	61
Perfluorobutanoate (PFBA)	-	-	-	-	-	-
Perfluorobutane sulfonate (PFBS)	-	-	-	-	-	-
Perfluorohexanesulfonate (PFHxS)	-	-	-	-	-	-
Perfluoropentanoate (PFPeA)	-	-	-	-	-	-
Perfluorohexanoate (PFHxA)	-	-	-	-	-	-
Perfluoroheptanoate (PFHpA)	-	-	-	-	-	-
Perfluorononanoate (PFNA)	-	-	-	-	-	-
<b>Other Parameters</b>						
Polychlorinated Biphenyls (Total PCB)	1.3	1.3	1.3	1.3	1.1	1.1
Dioxins and Furans (TEQ) (mg TEQ/kg)	0.00001	0.00001	0.000013	0.000013	0.000099	0.000099
Pentachlorophenol (PCP)	0.013	0.013	0.013	0.013	28	28
Organotins - Tributyltin	-	-	-	-	-	-
Ethylene Glycol	1100	1100	1100	1100	1800	1800
Propylene Glycol	NGR	NGR	NGR	NGR	NGR	NGR
Phenol	9.4	9.4	9.4	9.4	9.4	9.4

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.