

Current limits applied by the ERA for contamination analyses are as per Italian Decreto 152 of 3rd April 2006 and subsequent update 116 of August 2014

Italian Decreto: ID 152 of 2006. Part 4, Attachment 5, Table 1 and subsequent update 116 of August 2014

Ref	Land Samples			
	Parameter	Residential & Green site limits (mg/kg DW)	Commercial & Industrial Limit (mg/kg DW)	
1	Metals	Antimony	10	30
2		Arsenic	20	50
3		Berillium	2	10
4		Cadmium	2	15
5		Cobalt	20	250
6		Chromium Total	150	800
7		Chromate VI	2	15
8		Mercury	1	5
9		Nickel	120	500
10		Lead	100	1000
11		Copper	120	600
12		Selenium	3	15
13		Organotin Compounds	1	350
14		Thallium	1	10
15		Vanadium	90	250
16		Zinc	150	1500
17		Cyanides (free)	1	100
18		Fluorides	100	2000
19	BTEX	Benzene	0.1	2
20		Ethylbenzene	0.5	50
21		Styrene	0.5	50
22		Toluene	0.5	50
23		Xylene	0.5	50
24		Sum TEXS (20 to 23)	1	100
25	PAHs	Benzo(a)anthracene	0.5	10
26		Benzo(a)pyrene	0.1	10
27		Benzo(b)fluoranthene	0.5	10
28		Benzo(k)fluoranthene	0.5	10
		Benzo(g,h,i)perylene	0.1	10
29		(Benzo(g,h,i)terylene)		
30		Chrysene	5	50
31		Dibenzo(a,e)pyrene	0.1	10
32		Dibenzo(a,l)pyrene	0.1	10
33		Dibenzo(a,i)pyrene	0.1	10
34		Dibenzo(a,h)pyrene	0.1	10
35		Dibenzo(a,h)anthracene	0.1	10
36		Indenopyrene	0.1	5
37		Pyrene	5	50
38		Sum PAHs (25 to 34)	10	100
39	Chlorinated Carcinogenic Aliphatic Compounds	Chloromethane	0.1	5
40		Dichloromethane	0.1	5
41		Trichloromethane	0.1	5
42		Polyvinyl Chloride	0.01	0.1
43		1,2-Dichloroethane	0.2	5
44		1,1-Dichloroethene	0.1	1
45		Trichloroethene	1	10
46		Tetrachloroethene (PCE)	0.5	20
47	Chlorinated Non-Carcinogenic Aliphatic Compounds	1,1-Dichloroethane	0.5	30
48		1,2-Dichloroethene	0.3	15
49		1,1,1-Trichloroethane	0.5	50
50		1,2-Dichloropropane	0.3	5
51		1,1,2-Trichloroethane	0.5	15
52		1,2,3-Trichloropropane	1	10
53		1,1,2,2-Tetrachloroethane	0.5	10

Italian Decreto: ID 152 of 2006. Part 4, Att. 5, Table 2

Ref	Groundwater Samples		Limit Value (µg/L)
	Parameter		
1	Metals	Aluminium	200
2		Antimony	5
3		Silver	10
4		Arsenic	10
5		Berillium	4
6		Cadmium	5
7		Cobalt	50
8		Chromium Total	50
9		Chromate VI	5
10		Iron	200
11		Mercury	1
12		Nickel	20
13		Lead	10
14		Copper	1000
15		Selenium	10
16		Manganese	50
17		Thallium	2
18		Zinc	3000
19	Inorganics	Boron	1000
20		Cyanides (free)	50
21		Fluorides	1500
22		Nitrites	500
23		Sulphates (mg/L)	250
24	BTEX	Benzene	1
25		Ethylbenzene	50
26		Styrene	25
27		Toluene	15
28		para-Xylene	10
29	PAHs	Benzo(a)anthracene	0.1
30		Benzo(a)pyrene	0.01
31		Benzo(b)fluoranthene	0.1
32		Benzo(k)fluoranthene	0.05
33		Benzo(g,h,i)perylene	0.01
34		Chrysene	5
35		Dibenzo(a,h)anthracene	0.01
36		Indenopyrene	0.1
37		Pyrene	50
38			Sum (31, 32, 33, 36)
39	Chlorinated Carcinogenic Aliphatic Compounds	Chloromethane	1.5
40		Trichloromethane	0.15
41		Polyvinyl Chloride	0.5
42		1,2-Dichloroethane	3
43		1,1-Dichloroethene	0.05
44		Trichloroethene	1.5
45		Tetrachloroethene (PCE)	1.1
46		Hexachlorobutadiene	0.15
47		Sum Halogenated Organics	10
48	Chlorinated Non-Carcinogenic Aliphatic Compounds	1,1-Dichloroethane	810
49		1,2-Dichloroethene	60
50		1,2-Dichloropropane	0.15
51		1,1,2-Trichloroethane	0.2
52		1,2,3-Trichloropropane	0.001
53			1,1,2,2-Tetrachloroethane

54	Halogenated Carcinogenic Aliphatic Compounds	Tribromomethane (Bromoform)	0.5	10
55		1,2-Dibromoethane	0.01	0.1
56		Dibromochloromethane	0.5	10
57		Bromodichloromethane	0.5	10
58	Nitrobenzenes	Nitrobenzene	0.5	30
59		1,2-Dinitrobenzene	0.1	25
60		1,3-Dinitrobenzene	0.1	25
61		Chloronitrobenzene	0.1	10
62	Chlorobenzenes	Monochlorobenzene	0.5	50
63		1,2-dichlorobenzene	1	50
64		1,4-dichlorobenzene	0.1	10
65		1,2,4-Trichlorobenzene	1	50
66		1,2,4,5-Tetrachlorobenzene	1	25
67		Pentachlorobenzene	0.1	50
68		Hexachlorobenzene	0.05	5
69	non-Chlorinated Phenols			
70		o/m/p-Methylphenol	0.1	25
71		Phenol	1	60
72	Chlorinated Phenols	2-Chlorophenol	0.5	25
73		2,4-Dichlorophenol	0.5	50
74		2,4,6-Trichlorophenol	0.01	5
75		Pentachlorophenol	0.01	5
76	Aromatic Amines	Aniline	0.05	5
77		o-Anisidine	0.1	10
78		m,p-Anisidine	0.1	10
79		Diphenylamine	0.1	10
80		p-Toluidine	0.1	5
81		Sum Aromatic Amines	0.5	25
82	Pesticides	Alaclor	0.01	1
83		Aldrin	0.01	0.1
84		Atrazine	0.01	1
85		α -Hexachlorohexane	0.01	0.1
86		β -Hexachlorohexane	0.01	0.5
87		γ -Hexachlorohexane (Lindano)	0.01	0.5
88		Chlordane	0.01	0.1
89		DDD, DDT, DDE	0.01	0.1
90		Dieldrin	0.01	0.1
91		Endrin	0.01	2
92		Dioxins & Furans	Sum PCDD, PCDF (WHO 2005 TEQ)	0.00001 (10ng/kg) (0.01ng/g)
93	PCBs	PCBs	0.06 (60ng/g)	5 (5000ng/g)
94	Hydrocarbons	C \leq 12	10	250
95		C > 12	50	750
96	Others	Asbestos	1000	1000
97		Phthalic acid esters	10	60

54	Halogenated Carcinogenic Aliphatic Compounds	Tribromomethane	0.3
55		1,2-Dibromoethane	0.001
56		Dibromochloromethane	0.13
57		Bromodichloromethane	0.17
58	Nitrobenzenes	Nitrobenzene	3.5
59		1,2-Dinitrobenzene	15
60		1,3-Dinitrobenzene	3.7
61		Chloronitrobenzene	0.5
62	Chlorobenzenes	Monochlorobenzene	40
63		non-carcinogenic 1,2-dichlorobenzene	270
64		carcinogenic 1,4-dichlorobenzene	0.5
65		1,2,4-Trichlorobenzene	190
66		1,2,4,5-Tetrachlorobenzene	1.8
67		Pentachlorobenzene	5
68		Hexachlorobenzene	0.01
69	Phenols & Chlorophenols	2-Chlorophenol	180
70		2,4-Dichlorophenol	110
71		2,4,6-Trichlorophenol	5
72		Pentachlorophenol	0.5
73	Aromatic Amines	Aniline	10
74		Diphenylamine	910
75		p-Toluidine	0.35
76	Pesticides	Alaclor	0.1
77		Aldrin	0.03
78		Atrazine	0.3
79		α -Hexachlorohexane	0.1
80		β -Hexachlorohexane	0.1
81		Lindano γ -Hexachlorohexane	0.1
82		Chlordane	0.1
83		DDD, DDT, DDE	0.1
84		Dieldrin	0.03
85		Endrin	0.1
86	Sum Pesticides	0.5	
87	Dioxins & Furans	Sum PCDD, PCDF (WHO 2005 TEQ)	0.000004 (4ng/kg) (0.004ng/g)
88	Others	PCB	0.01
89		Acrylamide	0.1
90		Total Hydrocarbons (expressed as n-hexane)	350
91		para-Phthalic acid	37000
92		Asbestos (fibres > 10mm)	/