



MANKO | GOLD | KATCHER | FOX LLP

NJDEP Soil Remediation Standards
Comparison Chart
Manko, Gold, Katcher & Fox, LLP
June 2008

Contaminant	CASRN	Residential Direct Contact Soil Cleanup Criteria (mg/kg) (a)	Residential Direct Contact Soil Remediation Standards (mg/kg) (b)	Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg) (a)	Non-Residential Direct Contact Soil Remediation Standards (mg/kg) (b)
Acenaphthene	83-32-9	3,400	3,400	10,000	37,000
Acenaphthylene	208-96-8		NA		300,000
Acetone (2-propanone)	67-64-1	1,000	70,000	1,000	NA
Acetophenone	98-86-2		2		5
Acrolein	107-02-8		0.5		1
Acrylonitrile	107-13-1	1	0.9	5	3
Aldrin	309-00-2	0.04	0.04	0.17	0.2
Aluminum	7420-90-5		78,000		NA
Anthracene	120-12-7	10,000	17,000	10,000	30,000
Antimony	7440-36-0	14	31	340	450
Arsenic	7440-38-2	20	19*	20	19*
Atrazine	1912-24-9		210		2,400
Barium	7440-39-3	700	16,000	47,000	59,000
Benzaldehyde	100-52-7		6,100		68,000
Benzene	71-43-2	3	2	13	5
Benzidine	92-87-5		0.7		0.7
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.9	0.6	4	2
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.9	0.6	4	2
Benzo(a)pyrene (BaP)	50-32-8	0.66	0.2	0.66	0.2
Benzo(ghi)perylene	191-24-2		380,000		30,000
Benzo(k)fluoranthene	207-08-9	0.9	6	4	23
Benzyl Alcohol	100-51-6	10,000	Dropped	10,000	Dropped
Beryllium	7440-41-7	2	16	2	140
1,1'-Biphenyl	92-52-4		3,100		34,000
Bis(2-chloroethyl) ether	111-44-4	0.66	0.4	3	2
Bis(2-chloroisopropyl)ether	108-60-1	2,300	23	10,000	67
Bis(2-ethylhexyl) phthalate	117-81-7	49	35	210	140
Bromodichloromethane (Dichlorobromomethane)	75-27-4	11	1	46	3
Bromoforn	75-25-2	86	81	370	280
Bromomethane (Methyl bromide)	74-83-9	79	25	1,000	59
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	1,000	3,100	1,000	44,000
Butylbenzyl phthalate	85-68-7	1,100	1,200	10,000	14,000
Cadmium	7440-43-9	39	78	100	78
Caprolactam	105-60-2		31,000		340,000
Carbazole	86-74-8		24		96
Carbon Disulfide	75-15-0		7,800		110,000
Carbon tetrachloride	56-23-5	2	0.6	4	2
Chlordane (alpha and gamma)	57-74-9		0.2		1
4-Chloroaniline (p-Chloroaniline)	106-47-8	230	Dropped	4,200	Dropped
Chlorobenzene	108-90-7	37	510	680	7,400
Chloroethane (Ethyl Chloride)	75-00-3		220		1,100
Chloroform	67-66-3	19	0.6	28	2
4-Chloro-3-methyl phenol (p-Chloro-m-cresol)	59-50-7	10,000	Dropped	10,000	Dropped
Chloromethane (Methyl chloride)	74-87-3	520	4	1,000	12
2-Chlorophenol (o-Chlorophenol)	95-57-8	280	310	5,200	2,200
Chromium – hexavalent (VI)	18540-29-9	240; 270	Dropped	6,100; 20	Dropped
Chromium – trivalent (III)	16065-83-1	120,000	Dropped		Dropped
Chrysene	218-01-9	9	62	40	230
Cobalt	7440-48-4		1,600		590
Copper	7440-50-8	600	3,100	600	45,000
Cyanide	57-12-5	1,100	1,600	21,000	23,000
4,4'-DDD (p,p'-TDE)	72-54-8	3	3	12	13
4,4'-DDE (p,p'-DDX)	72-55-9	2	2	9	9
4,4'-DDT	50-29-3	2	2	9	8
Dibenz(a,h)anthracene	53-70-3	0.66	0.2	0.66	0.2
Dibromochloromethane (Chlorodibromomethane)	124-48-1	110	3	1,000	8
1,2-Dibromo-3-chloropropane	96-12-8		0.08		0.2
1,2-Dibromoethane	106-93-4		0.008		0.04
Di-n-butyl phthalate	84-74-2	5,700	6,100	10,000	68,000
Di-n-octyl phthalate	117-84-0	1,100	2,400	10,000	27,000
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	5,100	5,300	10,000	59,000
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	5,100	5,300	10,000	59,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	570	5	10,000	13
3,3'-Dichlorobenzidine	91-94-1	2	1	6	4
Dichlorodifluoromethane	75-71-8		490		230,000
1,1-Dichloroethane	75-34-3	570	8	1,000	24



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1,2-Dichloroethane	107-06-2	6	0.9	24	3
1,1-Dichloroethene	75-35-4	8	11	150	150
1,2-Dichloroethene (trans)	156-60-5	1,000	300	1,000	720
1,2-Dichloroethene (cis)	156-59-2	79	230	1,000	560
2,4-Dichlorophenol	120-83-2	170	180	3,100	2,100
1,2-Dichloropropane	78-87-5	10	2	43	5
1,3-Dichloropropene(cis and trans)	542-75-6	4	2	5	7
Dieldrin	60-57-1	0.042	0.04	0.18	0.2
Diethyl phthalate	84-66-2	10,000	49,000	10,000	550,000
2,4-Dimethyl phenol	105-67-9	1,100	1,200	10,000	14,000
Dimethyl phthalate	131-11-3	10,000	Dropped	10,000	Dropped
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1		6		68
2,4-Dinitrophenol	51-28-5	110	120	2,100	1,400
2,4-Dinitrotoluene	121-14-2		0.7		3
2,6-Dinitrotoluene	606-20-2		0.7		3
Dinitrotoluene(2,4-/2,6-mixture)	25321-14-6	1	0.7	4	3
1,2-Diphenylhydrazine	122-66-7		0.7		2
Endosulfan	115-29-7	340	470	6,200	6,800
Endosulfan Sulfate	1031-07-8		470		6,800
Endrin	72-20-8	17	23	310	340
Ethylbenzene	100-41-4	1,000	7,800	1,000	110,000
Fluoranthene	206-44-0	2,300	2,300	10,000	24,000
Fluorene	86-73-7	2,300	2,300	10,000	24,000
alpha-HCH (alpha-BHC)	319-84-6		0.1		0.5
beta-HCH (beta-BHC)	319-85-7		0.4		2
Heptachlor	76-44-8	0.15	0.1	0.65	0.7
Heptachlor epoxide	1024-57-3		0.07		0.3
Hexachlorobenzene	118-74-1	0.66	0.3	2	1
Hexachlorobutadiene	87-68-3	1	6	21	25
Hexachlorocyclopentadiene	77-47-4	400	45	7,300	110
Hexachloroethane	67-72-1	6	35	100	140
Indeno(1,2,3-cd)pyrene	193-39-5	0.9	0.6	4	2
Isophorone	78-59-1	1,100	510	10,000	2,000
Lead	7439-92-1	400	400	600	800
Lindane (gamma BHC) (gamma HCH)	58-89-9	0.52	0.4	2.2	2
Manganese	7439-96-5		11,000		5,900
2-Methylnaphthalene	91-57-6		230		2,400
2-Methylphenol (o-cresol)	95-48-7	2,800	310	10,000	3,400
4-Methylphenol (p-cresol)	106-44-5	2,800	31	10,000	340
Methoxychlor	72-43-5	280	390	5,200	5,700
Mercury	7439-97-6	14	23	270	65
Methyl acetate	79-20-9		78,000		NA
4-Methyl-2-pentanone (MIBK)	108-10-1	1,000	Dropped	1,000	Dropped
Methylene chloride (Dichloromethane)	75-09-2	49	34	210	97
Methyl tert-butyl ether (MTBE)	1634-04-4		110		320
Naphthalene	91-20-3	230	6	4,200	17
Nickel	7440-02-0	250	1,600	2,400	23,000
2-Nitroaniline	88-74-4		39		23,000
Nitrobenzene	98-95-3	28	31	520	340
N-Nitrosodimethylamine	62-75-9		0.7		0.7
N-Nitrosodiphenylamine	86-30-6	140	99	600	390
N-Nitrosodi-n-propylamine	621-64-7	0.66	0.2	0.66	0.3
PCBs (Polychlorinated biphenyls)	1336-36-3	0.49	0.2	2	1
Pentachlorophenol	87-86-5	6	3	24	10



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Phenanthrene	85-01-8		NA		300,000
Phenol	108-95-2	10,000	18,000	10,000	210,000
Pyrene	129-00-0	1,700	1,700	10,000	18,000
Selenium	7782-49-2	63	390	3,100	5,700
Silver	7440-22-4	110	390	4,100	5,700
Styrene	100-42-5	23	90	97	260
Tertiary butyl alcohol (TBA)	75-65-0		1,400		11,000
1,1,1,2-Tetrachloroethane	630-20-6	170	Dropped	310	Dropped
1,1,2,2-Tetrachloroethane	79-34-5	34	1	70	3
Tetrachloroethene (Tetrachloroethylene) (PCE)	127-18-4	4	2	6	5
Thallium	7440-28-0	2	5	2	79
Toluene	108-88-3	1,000	6,300	1,000	91,000
Toxaphene	8001-35-2	0.1	0.6	0.2	3
1,2,4-Trichlorobenzene	120-82-1	68	73	1,200	820
1,1,1-Trichloroethane	71-55-6	210	290	1,000	4,200
1,1,2-Trichloroethane	79-00-5	22	2	420	6
Trichloroethene (Trichloroethylene) (TCE)	79-01-6	23	7	54	20
Trichlorofluoromethane	75-69-4		23,000		340,000
2,4,5-Trichlorophenol	95-95-4	5,600	6,100	10,000	68,000
2,4,6-Trichlorophenol	88-06-2	62	19	270	74
Vanadium	7440-62-2	370	78	7,100	1,100
Vinyl chloride	75-01-4	2	0.7	7	2
Xylenes (Total)	1330-20-7	410	12,000	1,000	170,000
Zinc	7440-66-6	1,500	23,000	1,500	110,000

	= New compound added to list.
	= Compound cleanup level reduced by order of magnitude or more.
	= Compound deleted from list.

Footnotes:

- (a) Soil Cleanup Criteria as published by NJDEP May 12, 1999.
- (b) Soil Remediation Standards as published by NJDEP June 2, 2008.
- (*) The direct contact standard for Arsenic is based on natural background.