

US EPA ARCHIVE DOCUMENT

ling Results for 1000 vs. 10,000 Years Time Horizon
 ind Risk = 10-6)
 000 and 10,000 years Groundwater Modeling

No.	CAS #	Name of Chemical
1	83329	Acenaphthene
2	67641	Acetone (2-propanone)
3	75058	Acetonitrile (methyl cyanide)
4	98862	Acetophenone
5	107028	Acrolein
6	79061	Acrylamide #
7	107131	Acrylonitrile #
8	309002	Aldrin #
9	107051	Allyl Chloride
10	62533	Aniline #
176	7440360	Antimony
177	7440382	Arsenic #
178	7440393	Barium
12	71432	Benzene #
13	92875	Benzidine #
14	50328	Benzo[a]pyrene #
15	205992	Benzo[b]fluoranthene #
16	100516	Benzyl alcohol
17	100447	Benzyl chloride #
11	56553	Benz[a]anthracene #
179	7440417	Beryllium #
18	111444	Bis(2-chloroethyl)ether #
19	39638329	Bis(2-chloroisopropyl)ether#
20	117817	Bis(2-ethylhexyl)phthalate #
21	75274	Bromodichloromethane #
22	74839	Bromomethane
23	71363	Butanol
24	85687	Butyl benzyl phthalate
25	88857	Butyl-4,6-dinitrophenol,2-sec-
180	7440439	Cadmium
26	75150	Carbon disulfide
27	56235	Carbon tetrachloride #
28	57749	Chlordane #
29	126998	Chloro-1,3-butadiene 2-(Chloroprene)
30	106478	Chloroaniline p-
31	108907	Chlorobenzene
32	510156	Chlorobenzilate #
33	124481	Chlorodibromomethane #
34	67663	Chloroform #
35	74873	Chloromethane
36	95578	Chlorophenol 2-
181	16065381	Chromium (+3)
182	7440473	Chromium (+6)
37	218019	Chrysene
183	7440508	Copper
38	108394	Cresol m-
39	95487	Cresol o-

40	106445	Cresol p-
41	98828	Cumene
42	72548	DDD #
43	72559	DDE #
44	50293	DDT, p,p'- #
47	2303164	Diallate #
48	53703	Dibenz[a,h]anthracene #
49	96128	Dibromo-3-chloropropane1,2- #
50	95501	Dichlorobenzene1,2-
51	106467	Dichlorobenzene1,4- #
52	91941	Dichlorobenzidine3,3' #
53	75718	Dichlorodifluoromethane
54	75343	Dichloroethane 1,1- #
55	107062	Dichloroethane1,2- #
56	156592	Dichloroethylene cis-1,2
57	156605	Dichloroethylene trans-1,2
58	75354	Dichloroethylene1,1-(Vinylidene chloride:) #
59	120832	Dichlorophenol 2,4-
60	94757	Dichlorophenoxyacetic acid 2,4-
61	78875	Dichloropropane 1,2- #
62	10061026	Dichloropropene trans-1,3- #
63	542756	Dichloropropene 1,3-(mixture of isomers) #
64	10061015	Dichloropropene cis-1,3- #
65	60571	Dieldrin #
66	84662	Diethyl phthalate
67	56531	Diethylstilbestrol #
68	60515	Dimethoate
69	119904	Dimethoxybenzidine 3,3'- #
70	131113	Dimethyl phthalate
72	119937	Dimethylbenzidine 3,3'- #
71	57976	Dimethylbenz[a]anthracene 7,12-
73	105679	Dimethylphenol 2,4-
45	84742	Di-n-butyl phthalate
74	99650	Dinitrobenzene 1,3-
75	51285	Dinitrophenol 2,4-
76	121142	Dinitrotoluene 2,4-
77	606202	Dinitrotoluene 2,6-
46	117840	Di-n-octyl phthalate
78	123911	Dioxane 1,4- #
79	122394	Diphenylamine
80	298044	Disulfoton
81	115297	Endosulfan(Endosulfan I and II,mixture)
82	72208	Endrin
83	106898	Epichlorohydrin #
84	110805	Ethoxyethanol 2-
85	141786	Ethyl acetate
86	60297	Ethyl ether
87	97632	Ethyl methacrylate
88	62500	Ethyl methanesulfonate #
89	100414	Ethylbenzene
90	106934	Ethylene dibromide (1,2-Dibromoethane) #
91	96457	Ethylene thiourea #
92	206440	Fluoranthene
93	86737	Fluorene

94	50000	Formaldehyde
95	64186	Formic acid
96	110009	Furan
97	319857	HCH beta- #
99	319846	HCH alpha- #
98	58899	HCH (Lindane) gamma- #
100	76448	Heptachlor #
101	1024573	Heptachlor epoxide #
102	87683	Hexachloro-1,3-butadiene #
103	118741	Hexachlorobenzene #
104	77474	Hexachlorocyclopentadiene
105	67721	Hexachloroethane #
106	70304	Hexachlorophene
107	193395	Indeno[1,2,3-cd]pyrene
108	78831	Isobutyl alcohol
109	78591	Isophorone #
110	143500	Kepone #
184	7439921	Lead
185	7439976	Mercury
111	126987	Methacrylonitrile
112	67561	Methanol
113	72435	Methoxychlor
114	78933	Methyl ethyl ketone
115	108101	Methyl isobutyl ketone
116	80626	Methyl methacrylate
117	298000	Methyl parathion
118	56495	Methylcholanthrene 3- #
119	74953	Methylene bromide
120	75092	Methylene Chloride #
186	7439987	Molybdenum
129	91203	Naphthalene
187	7440020	Nickel
130	98953	Nitrobenzene
131	79469	Nitropropane 2-
123	55185	N-Nitrosodiethylamine #
124	62759	N-Nitrosodimethylamine #
121	924163	N-Nitroso-di-n-butylamine #
122	621647	N-Nitroso-di-n-propylamine #
125	86306	N-Nitrosodiphenylamine #
126	10595956	N-Nitrosomethylethylamine #
127	100754	N-Nitrosopiperidine #
128	930552	N-Nitrosopyrrolidine #
132	152169	Octamethyl pyrophosphoramidate
133	56382	Parathion (ethyl)
134	608935	Pentachlorobenzene
135	82688	Pentachloronitrobenzene (PCNB) #
136	87865	Pentachlorophenol #
137	108952	Phenol
138	62384	Phenyl mercuric acetate
139	108452	Phenylenediamine, 1,3-
140	298022	Phorate
141	1336363	Polychlorinated biphenyls (Aroclors) #
142	23950585	Pronamide
143	129000	Pyrene

144	110861	Pyridine
145	94597	Safrole #
188	7782492	Selenium
189	7440224	Silver
146	57249	Strychnine and salts
147	100425	Styrene
148	1746016	TCDDioxin 2,3,7,8 #
149	95943	Tetrachlorobenzene 1,2,4,5-
150	630206	Tetrachloroethane 1,1,1,2- #
151	79345	Tetrachloroethane 1,1,2,2- #
152	127184	Tetrachloroethylene
153	58902	Tetrachlorophenol 2,3,4,6-
154	3689245	Tetraethyl dithiopyrophosphate
190	7440280	Thallium
155	108883	Toluene
156	95807	Toluenediamine 2,4- #
158	95534	Toluidine o- #
157	106490	Toluidine p- #
159	8001352	Toxaphene (chlorinated camphenes) #
160	75252	Tribromomethane #
161	76131	Trichloro-1,2,2-trifluoro- ethane 1,1,2-
162	120821	Trichlorobenzene 1,2,4-
163	71556	Trichloroethane 1,1,1-
164	79005	Trichloroethane 1,1,2- #
165	79016	Trichloroethylene (1,1,2-Trichloroethylene) #
166	75694	Trichlorofluoromethane
168	95954	Trichlorophenol 2,4,5-
167	88062	Trichlorophenol 2,4,6- #
170	93765	Trichlorophenoxyacetic acid 2,4,5-
169	93721	Trichlorophenoxypropionic acid
171	96184	Trichloropropane 1,2,3-
172	99354	Trinitrobenzene (1,3,5-Trinitrobenzene) sym-
173	126727	Tris(2,3-dibromopropyl)phosphate B19 #
191	7440622	Vanadium
174	75014	Vinyl chloride #
175	1330207	Xylenes (total)
192	7440666	Zinc

* Represents the lowest results from either landfills, waste piles, or land application uni

** Represents results from surface impoundments.

Carcinogen

For Trichloroethane 1,1,1 the MCL, 0.20 mg/L was used in conc. calculation.

1000 Yrs Time Horizon		10,000 Yrs Time Horizon	
Nonwastewater*	Wastewater**	Nonwastewater*	Wastewater**
leach mg/l	leach mg/l	leach mg/l	leach mg/l
6.30E+000	3.60E+002	4.90E+000	3.10E+001
6.00E+000	1.56E+001	6.00E+000	1.56E+001
3.00E-001	7.80E-001	3.00E-001	7.80E-001
6.40E+000	1.68E+001	6.40E+000	1.68E+001
1.00E+006	1.00E+006	1.00E+006	1.00E+006
3.80E-005	2.80E-004	3.80E-005	2.60E-004
3.40E-004	1.10E-003	3.40E-004	1.10E-003
6.70E-004	6.50E-002	3.70E-006	4.70E-003
1.70E-002	5.30E-002	1.70E-002	5.30E-002
4.57E+001	1.18E+002	5.30E-002	1.36E-001
3.08E-002	7.92E-002	1.48E-004	3.84E-004
1.67E+001	4.29E+001	1.55E+001	3.32E+001
5.40E-003	1.80E-002	5.40E-003	1.77E-002
6.80E-007	2.24E-006	6.80E-007	2.24E-006
5.50E-004	5.50E-002	7.00E-006	3.60E-003
1.10E-002	4.90E-001	6.60E-005	1.60E-002
1.50E+001	4.00E+001	1.50E+001	3.90E+001
1.00E+006	1.00E+006	1.00E+006	1.00E+006
1.10E-004	1.10E-002	4.30E-006	7.20E-004
1.06E-003	2.72E-003	3.20E-004	8.27E-004
3.68E-004	1.92E-003	3.60E-004	6.48E-004
1.90E-003	7.90E-003	1.90E-003	7.00E-003
1.80E+000	1.80E+002	1.10E-003	1.20E+001
2.52E-003	1.05E-002	2.52E-003	8.54E-003
2.87E+003	5.53E+004	2.87E+003	4.13E+004
6.00E+000	1.56E+001	6.00E+000	1.56E+001
1.10E+002	1.10E+004	6.40E+001	4.40E+002
6.40E-002	1.92E-001	6.40E-002	1.92E-001
1.18E+001	3.05E+001	1.10E-001	2.40E-001
6.40E+000	2.08E+001	6.40E+000	1.84E+001
1.61E-003	1.40E-002	1.61E-003	1.40E-002
1.50E-002	1.50E+000	1.60E-004	1.00E-001
1.60E-001	4.20E-001	1.60E-001	4.20E-001
1.33E+000	4.83E+000	1.33E+000	4.76E+000
7.50E-003	1.02E+000	5.70E-003	5.40E-002
1.80E-003	6.90E-003	1.80E-003	6.60E-003
1.70E-002	5.80E-002	1.70E-002	5.70E-002
3.20E-001	9.00E-001	3.20E-001	9.00E-001
1.32E+005	3.40E+005	2.37E+004	6.12E+004
1.88E+001	4.85E+001	4.76E-001	1.24E+000
2.70E-002	2.90E+000	1.20E-003	1.00E-001
1.32E+005	3.40E+005	1.08E+003	2.79E+003
3.20E+000	8.80E+000	3.20E+000	8.40E+000
3.20E+000	8.80E+000	3.20E+000	8.40E+000

3.20E-001	8.80E-001	3.20E-001	8.40E-001
2.50E+000	1.50E+001	2.50E+000	1.50E+001
2.80E+003	1.00E+006	2.80E+003	9.10E+005
3.30E-002	3.30E+000	1.70E-004	2.30E-001
8.40E+003	1.00E+006	5.40E-003	2.04E+001
4.60E-001	2.30E+003	4.60E-001	9.00E+001
2.50E-004	2.50E-002	6.30E-007	1.80E-003
1.14E-004	7.20E-004	1.14E-004	6.60E-004
6.10E+000	3.00E+001	6.10E+000	3.00E+001
1.16E-002	6.80E-002	1.08E-002	5.60E-002
7.80E-004	5.40E-003	7.20E-004	4.20E-003
1.19E+001	3.57E+001	1.19E+001	3.57E+001
1.71E-003	9.90E-003	6.00E-005	1.60E-004
1.62E-003	9.00E-003	6.00E-005	1.60E-004
6.40E-001	1.72E+000	6.40E-001	1.68E+000
1.12E+000	2.94E+000	1.12E+000	2.94E+000
1.80E-004	5.90E-004	1.80E-004	5.90E-004
1.80E-001	6.30E-001	1.80E-001	6.20E-001
6.00E-001	1.56E+000	6.00E-001	1.56E+000
2.30E-003	2.60E-002	2.30E-003	2.30E-002
1.15E+003	9.00E+004	1.15E+003	9.00E+004
8.50E-004	2.80E-003	8.50E-004	2.80E-003
1.15E+003	9.00E+004	1.15E+003	9.00E+004
5.40E-001	2.90E+004	5.40E-001	6.80E+002
6.00E+001	4.50E+002	5.40E+001	1.86E+002
1.20E-007	9.20E-006	6.50E-008	4.30E-007
7.70E-001	2.94E+001	7.70E-001	2.94E+001
1.02E-002	3.36E-002	1.02E-002	3.36E-002
1.04E+003	1.12E+004	3.00E+001	7.80E+001
1.89E-005	8.10E-005	1.80E-005	7.02E-005
1.20E-003	1.40E-001	2.80E-006	1.30E-002
1.19E+000	3.78E+000	1.19E+000	3.78E+000
5.70E+001	6.30E+003	2.50E+001	2.30E+002
6.40E-003	1.68E-002	6.40E-003	1.68E-002
1.05E-001	2.73E-001	1.05E-001	2.73E-001
1.12E-001	3.01E-001	1.12E-001	2.94E-001
6.40E-002	1.68E-001	6.40E-002	1.68E-001
3.10E+002	5.20E+004	1.00E-001	1.30E+003
1.36E-002	4.24E-002	1.36E-002	4.24E-002
2.60E+000	1.50E+001	2.60E+000	1.50E+001
1.30E+001	5.80E+002	1.30E+001	4.60E+002
1.00E+000	1.26E+001	9.40E-001	6.00E+000
3.20E+001	2.70E+005	3.20E+000	6.60E+003
5.40E+003	4.14E+005	5.40E+003	4.14E+005
1.50E+001	3.90E+001	1.50E+001	3.90E+001
1.14E+002	6.00E+002	1.14E+002	3.90E+002
1.05E+001	2.73E+001	1.05E+001	2.73E+001
6.60E+000	6.90E+001	6.60E+000	2.40E+001
1.17E+004	9.30E+005	1.17E+004	9.30E+005
8.10E+000	3.90E+001	8.10E+000	3.90E+001
1.50E-005	4.20E-004	1.50E-005	3.60E-004
1.70E-004	5.30E-004	1.70E-004	5.30E-004
7.50E+000	7.80E+002	1.70E+000	2.70E+001
5.00E+000	3.90E+002	3.40E+000	2.20E+001

1.05E+001	2.73E+001	1.05E+001	2.73E+001
1.05E+002	2.73E+002	1.05E+002	2.73E+002
6.00E-002	1.60E-001	6.00E-002	1.56E-001
2.10E-004	1.30E-003	2.10E-004	1.30E-003
1.10E-001	2.10E+001	1.10E-001	2.10E+001
6.93E-001	1.19E+002	6.93E-001	1.19E+002
1.00E+006	1.00E+006	1.00E+006	1.00E+006
4.50E-001	3.15E+004	4.50E-001	7.83E+002
2.30E-002	2.10E+000	6.90E-003	8.10E-002
3.50E-003	3.50E-001	1.10E-004	2.23E-002
1.00E+006	1.00E+006	1.00E+006	1.00E+006
4.02E-002	1.10E+000	3.30E-002	2.16E-001
1.40E-002	1.50E+000	1.40E-003	5.20E-002
4.60E-003	5.00E-001	2.40E-005	1.70E-002
1.50E+001	3.90E+001	1.50E+001	3.90E+001
1.62E-001	5.49E-001	1.62E-001	5.31E-001
5.80E-005	4.80E-003	3.20E-005	2.20E-004
1.32E+005	3.40E+005	1.16E+001	3.00E+001
1.81E+001	4.67E+001	1.38E-001	2.96E-001
6.00E-003	1.64E-002	6.00E-003	1.56E-002
3.00E+001	7.80E+001	3.00E+001	7.80E+001
1.00E+006	1.00E+006	1.00E+006	1.00E+006
3.00E+001	7.80E+001	3.00E+001	7.80E+001
3.00E+000	8.00E+000	3.00E+000	7.80E+000
8.10E+000	8.40E+001	8.10E+000	2.82E+001
2.34E+001	9.90E+002	2.34E+001	7.80E+001
1.70E-003	1.70E-001	1.40E-006	1.20E-002
6.80E-001	2.32E+000	1.90E-001	2.32E+000
6.80E-001	2.36E+000	1.50E-002	3.90E-002
2.70E+000	1.40E+001	2.70E+000	1.40E+001
9.95E+000	2.56E+001	4.89E+000	1.05E+001
3.20E-002	8.40E-002	3.20E-002	8.40E-002
1.02E-006	3.18E-006	1.02E-006	3.18E-006
3.40E-006	1.06E-005	3.40E-006	1.06E-005
3.60E-005	1.32E-004	3.60E-005	1.22E-004
1.70E-005	5.40E-005	1.70E-005	5.30E-005
4.80E-002	2.60E-001	4.60E-002	2.00E-001
6.80E-006	2.16E-005	6.80E-006	2.12E-005
3.40E-006	1.06E-005	3.40E-006	1.06E-005
6.80E-005	2.12E-004	6.80E-005	2.12E-004
1.05E-001	2.80E-001	1.05E-001	2.73E-001
1.16E+004	5.60E+005	1.16E+004	4.40E+005
1.44E+001	1.56E+003	5.70E-001	5.10E+000
2.37E-002	2.19E+000	5.40E-003	8.10E-002
4.20E-004	2.50E-003	4.10E-004	2.00E-003
3.20E+001	8.40E+001	3.20E+001	8.40E+001
4.50E-003	1.17E-002	4.50E-003	1.17E-002
3.00E-001	7.80E-001	3.00E-001	7.80E-001
1.00E+006	1.00E+006	1.00E+006	1.00E+006
9.10E-004	8.80E-002	4.80E-006	6.10E-003
5.70E+000	2.19E+001	5.70E+000	2.13E+001
1.40E+001	1.50E+003	1.70E+000	5.40E+001

6.00E-002	1.56E-001	6.00E-002	1.56E-001
9.50E-004	3.80E-003	9.50E-004	3.50E-003
1.38E+000	3.57E+000	3.57E-001	9.27E-001
1.32E+000	3.40E+000	8.90E-002	1.91E-001
1.60E-002	4.50E-002	1.60E-002	4.50E-002
1.54E+001	6.51E+001	1.54E+001	6.37E+001
2.70E-008	2.70E-006	1.80E-010	1.90E-007
6.00E-002	5.70E+000	3.20E-002	2.30E-001
7.80E-003	7.50E-002	7.80E-003	7.50E-002
9.60E-003	2.92E-001	8.00E-003	2.40E-002
6.80E-001	2.08E+000	6.80E-001	2.04E+000
5.80E-001	1.90E+000	5.80E-001	1.90E+000
1.00E+006	1.00E+006	1.00E+006	1.00E+006
3.96E+002	1.02E+003	1.92E-002	5.00E-002
1.26E+001	4.20E+001	1.26E+001	4.13E+001
5.10E-005	1.59E-004	5.10E-005	1.59E-004
6.80E-004	2.24E-003	6.80E-004	2.24E-003
6.80E-004	2.24E-003	2.24E-003	2.24E-003
1.10E-001	6.70E+002	1.10E-001	2.20E+001
1.80E-002	6.80E-002	1.80E-002	6.40E-002
2.40E+003	1.10E+004	2.40E+003	1.10E+004
2.10E+000	1.70E+002	1.30E+000	9.30E+000
5.00E+000	1.20E+002	4.60E+000	1.20E+002
1.80E-003	7.40E-003	1.80E-003	7.00E-003
1.44E-002	5.28E-002	1.28E-002	3.84E-002
1.60E+001	4.90E+001	1.60E+001	4.80E+001
4.20E+000	2.00E+001	4.20E+000	4.40E+001
1.52E-002	5.76E-002	1.52E-002	5.36E-002
6.40E-001	1.68E+000	6.40E-001	1.68E+000
4.80E-001	1.32E+000	4.80E-001	1.26E+000
3.40E-001	2.20E+000	3.40E-001	1.10E+000
3.00E-003	8.00E-003	3.00E-003	7.80E-003
9.90E-005	2.52E-003	9.90E-005	2.52E-003
8.82E+000	2.27E+001	3.71E+000	9.58E+000
6.80E-005	2.16E-004	6.00E-005	1.56E-004
1.47E+002	9.10E+002	1.47E+002	8.60E+002
1.08E+002	2.79E+002	3.84E+001	9.90E+001

its waste management scenarios.