

Section 11
Underlying Hazardous Constituents (UHC)
& Land Disposal Restriction Constituents (LDR)

Ref. No.	Hazardous Constituent	CAS No.	NWW mg/kg	WW mg/kg	Concentration
1	Acenaphthene	83-32-9	3.4	0.059	
2	Acenaphthylene	208-96-8	3.4	0.059	
3	Acetone	67-64-1	160	0.28	
4	Acetonitrile	75-05-8	38	5.6	
5	Acetophenone	96-86-2	9.7	0.010	
6	2-Acetylaminofluorene	53-96-3	140	0.059	
7	Acrolein	107-02-8	NA	0.29	
8	Acrylonitrile	107-13-1	84	0.24	
9	Acrylamide	79-06-1	23	19	
10	Aldrin	309-00-2	0.066	0.021	
11	4-Aminobiphenyl	92-67-1	NA	0.13	
12	Aniline	62-53-3	14	0.81	
13	Anthracene	120-12-7	3.4	0.059	
14	Aramite	140-57-8	NA	0.36	
15	alpha-BHC	319-84-6	0.066	0.00014	
16	beta-BHC	319-85-7	0.066	0.00014	
17	delta-BHC	319-86-8	0.066	0.023	
18	gamma-BHC (Lindane)	58-89-9	0.066	0.0017	
19	Benz(a)anthracene	56-55-3	3.4	0.059	
20	Benzal chloride	98-87-3	6	0.055	
21	Benzene	71-43-2	10	0.14	
22	Benzo(a)pyrene	50-32-8	3.4	0.061	
23	Benzo(b)fluoranthene	205-99-2	6.8	0.11	
24	Benzo(k)fluoranthene	207-08-9	6.8	0.11	
25	Benzo(g,h,i)perylene	191-24-2	1.8	0.0055	
26	bis(2-Chloroethoxy)methane	111-91-1	7.2	0.036	
27	bis(2-Chloroethyl)ether	111-44-4	6	0.033	
28	bis(2-Chloroisopropyl) ether	39638-32-9	7.2	0.055	
29	bis(2-Ethylhexyl) phthalate	117-81-7	28	0.28	
30	Bromodichloromethane	75-27-4	15	0.35	
31	Bromomethane (Methyl bromide)	74-83-9	15	0.11	
32	4-Bromophenyl phenyl ether	101-55-3	15	0.055	
33	n-Butyl alcohol	71-36-3	2.6	5.6	
34	Butyl benzyl phthalate	85-68-7	28	0.017	
35	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	88-85-7	2.5	0.066	
36	Carbon disulfide	75-15-0	4.8*	3.8	
37	Carbon tetrachloride	56-23-5	6	0.057	
38	Chlordane (alpha and gamma isomers)	57-74-9	0.26	0.0033	
39	p-Chloroaniline	106-47-8	16	0.46	
40	Chlorobenzene	108-90-7	6	0.057	
41	Chlorobenzilate	510-15-6	NA	0.10	
42	2-Chloro-1, 3-butadiene (Chloroprene)	126-99-8	0.28	0.057	
43	Chlorodibromomethane	124-48-1	15	0.057	
44	Chloroethane	75-00-3	6	0.27	
45	Chloroform	67-66-3	6	0.046	
46	p-Chloro-m-cresol	59-50-7	14	0.018	
47	2-Chloroethyl vinyl ether	110-75-8	NA	0.062	
48	Chloromethane (Methyl chloride)	74-87-3	30	0.19	
49	2-Chloronaphthalene	91-58-7	5.6	0.055	
50	2-Chlorophenol	95-57-8	5.7	0.044	
51	3-Chloropropylene (Allyl Chloride)	107-05-1	30	0.036	
52	Chrysene	218-01-9	3.4	0.059	
53	o-Cresol (2-Methyl phenol)	95-48-7	5.6	0.11	
54	m-Cresol (3-Methyl phenol)	108-39-4	5.6	0.77	

Section 11
Underlying Hazardous Constituents (UHC)
& Land Disposal Restriction Constituents (LDR)

Ref. No.	Hazardous Constituent	CAS No.	NWW mg/kg	WW mg/kg	Concentration
55	p-Cresol (4-Methyl phenol)	106-44-5	5.6	0.77	
56	Cyclohexanone	108-94-1	0.75*	0.36	
57	o,p`-DDD	53-19-0	0.087	0.023	
58	p,p`-DDD	72-54-8	0.087	0.023	
59	o,p`-DDE	3424-82-6	0.087	0.031	
60	p,p`-DDE	72-55-9	0.087	0.031	
61	o,p`-DDT	789-02-6	0.087	0.0039	
62	p,p`-DDT	50-29-3	0.087	0.0039	
63	Dibenz(a,h)anthracene	53-70-3	8.2	0.055	
64	Dibenz(a,e)pyrene	192-65-4	NA	0.061	
65	1,2-Dibromo-3-chloropropane	96-12-8	15	0.11	
66	1,2-Dibromoethane (Ethylene dibromide)	106-93-4	15	0.028	
67	Dibromomethane	74-95-3	15	0.11	
68	m-Dichlorobenzene (1,3-Dichlorobenzene)	541-73-1	6	0.036	
69	o-Dichlorobenzene (1,2-Dichlorobenzene)	95-50-1	6	0.088	
70	p-Dichlorobenzene (1,4-Dichlorobenzene)	106-46-7	6	0.090	
71	Dichlorodifluoromethane	75-71-8	7.2	0.23	
72	1,1-Dichloroethane	75-34-3	6	0.059	
73	1,2-Dichloroethane	107-06-2	6	0.21	
74	1,1-Dichloroethylene	75-35-4	6	0.025	
75	trans-1,2-Dichloroethylene	156-60-5	30	0.054	
76	2,4-Dichlorophenol	120-83-2	14	0.044	
77	2,6-Dichlorophenol	87-65-0	14	0.044	
78	2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	10	0.72	
79	1,2-Dichloropropane	78-87-5	18	0.85	
80	cis-1,3-Dichloropropylene	10061-01-5	18	0.036	
81	trans-1,3-Dichloropropylene	10061-02-6	18	0.036	
82	Dieldrin	60-57-1	0.13	0.017	
83	Diethyl phthalate	84-66-2	28	0.2	
84	p-Dimethylaminoazobenzene	60-11-7	NA	0.13	
85	2,4-Dimethyl phenol	105-67-9	14	0.036	
86	Dimethyl phthalate	131-11-3	28	0.047	
87	Di-n-butyl phthalate	84-74-2	28	0.057	
88	1,4-Dinitrobenzene	100-25-4	2.3	0.32	
89	4,6-Dinitro-o-cresol	534-52-1	160	0.28	
90	2,4-Dinitrophenol	51-28-5	160	0.12	
91	2,4-Dinitrotoluene	121-14-2	140	0.32	
92	2,6-Dinitrotoluene	606-20-2	28	0.55	
93	Di-n-octyl phthalate	117-84-0	28	0.017	
94	Di-n-propylnitrosamine	621-64-7	14	0.40	
95	1,4-Dioxane	123-91-1	170	12	
96	Diphenylamine	122-39-4	13	0.92	
97	Diphenylnitrosamine	86-30-6	13	0.92	
98	1,2-Diphenylhydrazine	122-66-7	NA	0.087	
99	Disulfoton	298-04-3	6.2	0.017	
100	Endosulfan I	959-98-9	0.066	0.023	
101	Endosulfan II	33213-65-9	0.13	0.029	
102	Endosulfan sulfate	1031-07-8	0.13	0.029	
103	Endrin	72-20-8	0.13	0.0028	
104	Endrin aldehyde	7421-93-4	0.13	0.025	
105	2-Ethoxyethanol (F005)+		INCIN	INCIN	
106	Ethyl acetate	141-78-6	33	0.34	
107	Ethyl benzene	100-41-4	10	0.057	
108	Ethyl ether	60-29-7	160	0.12	
109	Ethyl methacrylate	97-63-2	160	0.14	
110	Ethylene oxide	75-21-8	NA	0.12	

Section 11
Underlying Hazardous Constituents (UHC)
& Land Disposal Restriction Constituents (LDR)

Ref. No.	Hazardous Constituent	CAS No.	NWW mg/kg	WW mg/kg	Concentration
111	Famphur	52-85-7	15	0.017	
112	Fluoranthene	206-44-0	3.4	0.068	
113	Fluorene	86-73-7	3.4	0.059	
114	Heptachlor	76-44-8	0.066	0.0012	
115	Heptachlor epoxide	1024-57-3	0.066	0.016	
116	Hexachlorobenzene	118-74-1	10	0.055	
117	Hexachlorobutadiene	87-68-3	5.6	0.055	
118	Hexachlorocyclopentadiene	77-47-4	2.4	0.057	
119	HxCDDs (All Hexachlorodibenzo-p-dioxins)	NA	0.001	0.000063	
120	HxCDFs (All Hexachlorodibenzofurans)	NA	0.001	0.000063	
121	Hexachloroethane	67-72-1	30	0.055	
122	Hexachloropropylene	1888-71-7	30	0.035	
123	Indeno (1,2,3-c,d) pyrene	193-39-5	3.4	0.0055	
124	Iodomethane	74-88-4	65	0.19	
125	Isobutyl alcohol (Isobutanol)	78-83-1	170	5.6	
126	Isodrin	465-73-6	0.066	0.021	
127	Isosafrole	120-58-1	2.6	0.081	
128	Kepone	143-50-0	0.13	0.0011	
129	Methacrylonitrile	126-98-7	84	0.24	
130	Methanol	67-56-1	0.75*	5.6	
131	Methapyrilene	91-80-5	1.5	0.081	
132	Methoxychlor	72-43-5	0.18	0.25	
133	3-Methylchloroanthrene	56-49-5	15	0.0055	
134	4,4-Methylene bis (2-chloroaniline)	101-14-4	30	0.5	
135	Methylene chloride	75-09-2	30	0.089	
136	Methyl ethyl ketone	78-93-3	36	0.28	
137	Methyl isobutyl ketone	108-10-1	33	0.14	
138	Methyl methacrylate	80-62-6	160	0.14	
139	Methyl methansulfonate	66-27-3	NA	0.018	
140	Methyl parathion	298-00-0	4.6	0.014	
141	Naphthalene	91-20-3	5.6	0.059	
142	2-Naphthylamine	91-59-8	NA	0.52	
143	o-Nitroaniline	88-74-4	14	0.27	
144	p-Nitroaniline	100-01-6	28	0.028	
145	Nitrobenzene	98-95-3	14	0.068	
146	5-Nitro-o-toluidine	99-55-8	28	0.32	
147	o-Nitrophenol	88-75-5	13	0.028	
148	p-Nitrophenol	100-02-7	29	0.12	
149	2-Nitropropane (F005)+		INCIN	INCIN	
150	N-Nitrosodiethylamine	55-18-5	28	0.4	
156	N-Nitrosopyrrolidine	930-55-2	35	0.013	
157	Parathion	56-38-2	4.6	0.014	
158	Total PCBs	1336-36-3	10	0.1	
159	Pentachlorobenzene	608-93-5	10	0.055	
160	PeCDDs (All Pentachlorodibenzo-p-dioxins)	NA	0.001	0.000063	
161	PeCDFs (All Pentachlorodibenzofurans)	NA	0.001	0.000035	
162	Pentachloroethane	76-01-7	6	0.055	
163	Pentachloronitrobenzene	82-68-8	4.8	0.055	
164	Pentachlorophenol	87-86-5	7.4	0.089	
165	Phenacetin	62-44-2	16	0.081	
166	Phenanthrene	85-01-8	5.6	0.059	
167	Phenol	108-95-2	6.2	0.039	
168	Phorate	298-02-2	4.6	0.021	
169	Phthalic acid	100-21-0	28	0.055	
170	Phthalic anhydride	85-44-9	28	0.055	
171	Pronamide	23950-58-5	1.5	0.093	

Section 11
Underlying Hazardous Constituents (UHC)
& Land Disposal Restriction Constituents (LDR)

Ref. No.	Hazardous Constituent	CAS No.	NWW mg/kg	WW mg/kg	Concentration
172	Propanenitrile (Ethyl cyanide)	107-12-0	360	0.24	
173	Pyrene	129-00-0	8.2	0.067	
174	Pyridine	110-86-1	16	0.014	
175	Safrole	94-59-7	22	0.081	
176	Silvex (2,4,5-TP)	93-72-1	7.9	0.72	
177	1,2,4,5-Tetrachlorobenzene	95-94-3	14	0.055	
178	TCDDs (All Tetachlorodibenzo-p-dioxins)	NA	0.001	0.000063	
179	TCDFs (All Tetrachlorodibenzofurans)	NA	0.001	0.000063	
180	1,1,1,2-Tetrachloroethane	630-20-6	6	0.057	
181	1,1,2,2-Tetrachloroethane	79-34-5	6	0.057	
182	Tetrachloroethylene	127-18-4	6	0.056	
183	2,3,4,6-Tetrachlorophenol	58-90-2	7.4	0.03	
184	Toluene	108-88-3	10	0.080	
185	Toxaphene	8001-35-2	2.6	0.0095	
186	Tribromomethane (Bromoform)	75-25-2	15	0.63	
187	1,2,4-Trichlorobenzene	120-82-1	19	0.055	
188	1,1,1-Trichloroethane	71-55-6	6	0.054	
189	1,1,2-Trichloroethane	79-00-5	6	0.054	
190	Trichloroethylene	79-01-6	6	0.054	
191	Trichloromonofluoromethane	75-69-4	30	0.02	
192	2,4,5-Trichlorophenol	95-95-4	7.4	0.18	
193	2,4,6-Trichlorophenol	88-06-2	7.4	0.035	
194	2,4,5-Trichlorophenoxyacetic acid/2,4,5-T	93-76-5	7.9	0.72	
195	1,2,3-Trichloropropane	96-18-4	30	0.85	
196	1,1,2-Trichloro- 2,2,2-trifluoroethane	76-13-1	30	0.057	
197	tris-(2,3-Dibromopropyl) phosphate	126-72-7	0.1	0.011	
198	Vinyl chloride	75-01-4	6	0.27	
199	Xylenes	1330-20-7	30	0.32	
200	Antimony	7440-36-0	1.15* ‡	1.9	
201	Arsenic	7440-38-2	5.0*	1.4	
202	Barium	7440-39-3	21* ‡	1.2	
203	Beryllium	7440-41-7	1.22* ‡	0.82	
204	Cadmium	7440-43-9	0.11* ‡	0.69	
205	Chromium (Total)	7440-47-3	0.60* ‡	2.77	
206	Cyanides (Total)	57-12-5	590	1.2	
207	Cyanides (Amenable)	57-12-5	30	0.86	
208	Fluoride	16984-48-8	NA	35	
209	Lead	7439-92-1	0.75* ‡	0.69	
210	Mercury (retort residues)	7439-97-6	0.20*	NA	
211	Mercury (all others)	7439-97-6	0.025*	0.15	
212	Nickel	7440-02-0	11* ‡	3.98	
213	Selenium	7782-49-2	5.7* **	0.82	
214	Silver	7440-22-4	0.14* ‡	0.43	
215	Sulfide	18496-25-8	NA	14	
216	Thallium	7440-28-0	0.20* ‡	1.4	
217	Vanadium	7440-62-2	1.6* ** ‡	4.3	
218	Zinc	7440-66-6	4.3* ** ‡	2.61	
219	A2213	30558-43-1	1.4	0.042***	
220	Aldicarb sulfone	1646-88-4	0.28	0.056	
221	Barban	101-27-9	1.4	0.056	
222	Bendiocarb	22781-23-3	1.4	0.056	
223	Bendiocarb phenol	22961-82-6	1.4	0.056	
224	Benomyl	17804-35-2	1.4	0.056	
225	Butylate	2008-41-5	1.4	0.042***	
226	Carbaryl	63-25-2	0.14	0.006	
227	Carbenzadim	10605-21-7	1.4	0.056	

Section 11 Underlying Hazardous Constituents (UHC) & Land Disposal Restriction Constituents (LDR)

Ref. No.	Hazardous Constituent	CAS No.	NWW mg/kg	WW mg/kg	Concentration
228	Carbofuran	1563-66-2	0.14	0.006	
229	Carbofuran phenol	1563-38-8	1.4	0.056	
230	Carbosulfan	55285-14-8	1.4	0.028	
231	m-Cumenyl methylcarbamate	64-00-6	1.4	0.056	
232	Cycloate**	1134-23-2	1.4	0.042***	
233	Diethylene glycol, dicarbamate	5952-26-1	1.4	0.056	
234	Dimetilan	644-64-4	1.4	0.056	
235	Dithiocarbamates (total)	137-30-4	28	0.028	
236	EPTC	759-94-4	1.4	0.042	
237	Formetanate hydrochloride	23422-53-9	1.4	0.056	
238	Formparanate	17702-57-7	1.4	0.056	
239	3-Iodo-2-propynyl n-butylcarbamate**	55406-53-6	1.4	0.056	
240	Isolan	119-38-0	1.4	0.056	
241	Methiocarb	2032-65-7	1.4	0.056	
242	Methomyl	16752-77-5	0.14	0.028	
243	Metolcarb	1129-41-5	1.4	0.056	
244	Mexacarbate	315-18-4	1.4	0.056	
245	Molinat	2212-67-1	1.4	0.042	
246	Oxamyl	23135-22-0	0.28	0.056	
247	Pebulate	1114-71-2	1.4	0.042	
248	o-Phenylenediamine	95-54-5	5.6	0.056	
249	Physostigmine	57-47-6	1.4	0.056	
250	Physostigmine salicylate	57-64-7	1.4	0.056	
251	Promecarb	2631-37-0	1.4	0.056	
252	Propham	122-42-9	1.4	0.056	
253	Propoxur	114-26-1	1.4	0.056	
254	Prosulfocarb	52888-80-9	1.4	0.042	
255	Thiodicarb	59669-26-0	1.4	0.019	
256	Thiophanate-methyl	23564-05-8	1.4	0.056	
257	Tirpate	26419-73-8	0.28	0.056	
258	Triallate	2303-17-5	1.4	0.042	
259	Triethylamine	101-44-8	1.5	0.081	
260	Vernolate	1929-77-7	1.4	0.042	
261	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	0.0025	0.000035	
262	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	0.0025	0.000035	
263	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	0.0025	0.000035	
264	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	0.005	0.000063	
265	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	0.005	0.000063	

* "Concentration in mg/l TCLP"

** Not Underlying Hazardous Constituents. (See 60 FR, Jan. 3, 1995)

*** The preamble to the final rule (61 FR 15584) clearly indicates that the wastewater treatment standard for thiocarbamate constituents has been revised to 0.042mg/l. However, the §268.48 universal treatment standards table still shows 0.003 mg/l.

‡ These UTS levels are effective on August 24, 1998 as established in 63 FR 28556-28753) the finalized Phase IV-Part 2 land disposal restrictions (LDR) rule.

+ These UTS levels are expressed as a treatment technology.