Department of Environmental Quality
Division of Waste Management
Hazardous Waste Section
"Contained-In" Levels for Excavated Contaminated Soil
that Contains a Listed Hazardous Waste

"Contained-In" levels for excavated contaminated soil are provided as part of the "Contained-In" Policy for Excavated Contaminated Soil that Contains a Listed Hazardous Waste ("Contained-In" Policy). The levels were established by the Hazardous Waste Section using the criteria listed in Section 4.0 of the "Contained-In" Policy guidance document. The policy is only applicable to excavated and containerized soil contaminated with listed hazardous waste, as defined in 40 CFR 261 Subpart D, adopted by reference in 15A NCAC 13A .0106 (see https://deq.nc.gov/about/divisions/waste-management/hw/rules). Refer to the "Contained-In" Policy at https://www.deq.nc.gov/technical-assistance-and-guidance-documents#Contained-inPolicy-2394 for additional information.

For regulatory reasons, if leachate analyses are used for TCLP constituents, the level must be less than the leachate value given for that soil to be considered non-hazardous by the toxicity characteristic. All leachate levels Highlighted in Blue in this table are TCLP constituents.

In the following table, NA is defined as:

NA: Leachate value is not applicable because the "contained-in" level is based on criteria using total values (criteria obtained from risk-based preliminary remediation goals or the Universal Treatment Standards for environmental media).

Refer to Section 4.0 Procedure for "Contained-In" Decision and "Contained-Out" Determination in the "Contained-In" Policy for Excavated Contaminated Soil that Contains a Listed Hazardous Waste Document for additional information on the criteria used to determine if contaminated soil is a Subtitle C waste that may affect how a soil must be managed and disposed.

Hazardous Waste Section - Compliance Branch
"Contained-In" Levels for Disposal as a Subtitle C Waste

List #	Chemical Name	CAS #	Total Values (mg/kg)	Leachate Values (mg/L) (for TCLP constituents in Table 1, 40 CFR 261.24, the values must be less than given value)
1	Acenaphthene	83-32-9	34	NA
2	Acenaphthylene	208-96-8	34	NA
3	Acetone	67-64-1	1600	NA
4	Acetonitrile; Methyl cyanide	75-05-8	260	13
5	Acetophenone; Acetyl benzene	98-86-2	97	NA
6	Acrolein; Acryl aldehyde	107-02-8	0.1	NA
7	Acrylamide	79-06-1	0.016	0.0008
8	Acrylonitrile	107-13-1	0.104	0.0052
9	Alachlor	15972-60-8	4	0.2
10	Aldicarb	116-06-3	40	2
11	Aldicarb sulfone	1646-88-4	40	2
12	Aldrin	309-00-2	0.004	0.0002
13	Aluminum	7429-90-5	40000	2000
14	Allyl chloride	107-05-1	1.46	0.073
15	Aniline; Amino benzene	62-53-3	26	1.3
16	Anthracene	120-12-7	34	NA
17	Antimony (and compounds)	7440-36-0	2	0.1
18	Aramite	140-57-8	30	1.5
19	**Arsenic**	**7440-38-2**	**100**	**5**

20	Atrazine	1912-24-9	6	0.3
21	**Barium (and compounds)**	**7440-39-3**	**2000**	**100**
22	**Benzene**	**71-43-2**	**10**	**0.5**
23	Benzo[a]anthracene; Benzanthracene	56-55-3	0.1	0.005
24	Benzo[b]fluoranthene	205-99-2	0.1	0.005
25	Benzo[k]fluoranthene	207-08-9	0.1	0.005
26	Benzo[ghi]perylene	191-24-2	18	NA
27	Benzo[a]pyrene	50-32-8	0.01	0.0005
28	Benzoic acid	65-85-0	60,000	3,000
29	Benzyl alcohol	100-51-6	1400	70
30	Beryllium (and compounds)	7440-41-7	8	0.4
31	alpha-BHC (HCH)	319-84-6	0.012	0.0006
32	beta-BHC (HCH)	319-85-7	0.04	0.002
33	**gamma-BHC; Lindane**	**58-89-9**	**8**	**0.4**
34	Bis(2-chloroethyl)ether; Dichloroethyl ether	111-44-4	0.06	0.003
35	Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether	108-60-1	1420	71
36	Bis or di (2-ethylhexyl) phthalate	117-81-7	6	0.3
37	Boron	7440-42-8	1400	70
38	Bromodichloromethane	75-27-4	1.2	0.06
39	Bromoform; Tribromomethane	75-25-2	8	0.4
40	n-Butylbenzene	104-51-8	140	7
41	sec-Butylbenzene	135-9-88	140	7
42	tert-Butylbenzene	98-06-6	140	7
43	Butyl benzyl phthalate	85-68-7	280	NA

44	**Cadmium (and compounds)**	**7440-43-9**	**20**	**1**
45	Caprolactam	105-60-2	8000	400
46	Carbofuran	1563-66-2	80	4
47	Carbon disulfide	75-15-0	740	NA
48	**Carbon tetrachloride**	**56-23-5**	**10**	**0.5**
49	**Chlordane**	**57-74-9**	**0.6**	**0.03**
50	p-Chloroaniline (4-chloroaniline)	106-47-8	160	NA
51	**Chlorobenzene**	**108-90-7**	**2000**	**100**
52	Chlorobenzilate	510-15-6	0.62	0.031
53	Chloroethane: Ethyl chloride	75-00-3	60	NA
54	**Chloroform (Trichloromethane)**	**67-66-3**	**120**	**6**
55	2-Chloronaphthalene (beta-)	91-58-7	56	NA
56	2-Chlorophenol	95-57-8	0.8	0.04
57	Chloroprene (2-Chloro-1,3-butadiene)	126-99-8	0.038	0.0019
58	2-Chlorotoluene	95-49-8	200	10
59	**Chromium (total) (assum. for Reg. 9 levels--1:6 ratio Cr VI:Cr III)**	**7440-47-3**	**100**	**5**
60	Chromium III	16065-83-1	44000	2200
61	Chromium VI	18540-29-9	0.07	0.0035
62	Chrysene	218-01-9	10	0.5
63	Cobalt	7440-48-4	2	0.1
64	Copper	7440-50-8	2000	100
65	**m-Cresol (3-Methylphenol)**	**108-39-4**	**4000**	**200**
66	**o-Cresol (2-Methylphenol)**	**95-48-7**	**4000**	**200**
67	**p-Cresol (4-Methylphenol)**	**106-44-5**	**4000**	**200**
68	Cyanide compounds	74-90-8	31	NA

69	**2,4-D: 2,4-Dichlorophenoxyacetic acid**	**94-75-7**	**200**	**10**
70	4,4'-DDD	72-54-8	0.2	0.01
71	4,4'-DDE	72-55-9	0.2	0.01
72	4,4'-DDT	50-29-3	0.2	0.01
73	Dalapon	75-99-0	2.2	0.11
74	Diallate	2303-16-4	1.08	0.054
75	Dibenz[a,h]anthracene	53-70-3	0.01	0.0005
76	Dibenzofuran	132-64-9	56	2.8
77	Dibromochloromethane; Chlorodibromomethane	124-48-1	0.8	0.04
78	1,2-Dibromo-3-chloropropane: DBCP	96-12-8	0.008	0.0004
79	1,2-Dibromoethane: Ethylene dibromide (EDB)	106-93-4	0.04	0.002
80	Di-n-butyl phthalate	84-74-2	1400	70
81	m-Dichlorobenzene (1,3-)	541-73-1	60	NA
82	o-Dichlorobenzene (1,2-)	95-50-1	40	2
83	**p-Dichlorobenzene (1,4-)**	**106-46-7**	**150**	**7.5**
84	3,3'-Dichlorobenzidine	91-94-1	0.26	0.013
85	Dichlorodifluoromethane	75-71-8	72	NA
86	1,1-Dichloroethane	75-34-3	12	0.6
87	**1,2-Dichloroethane; Ethylene dichloride**	**107-06-2**	**10**	**0.5**
88	**1,1-Dichloroethylene; Vinylidene chloride**	**75-35-4**	**14**	**0.7**
89	cis- 1,2-dichloroethylene	156-59-2	78	NA
90	trans-1,2-dichloroethylene	156-60-5	64	NA
91	2,4-Dichlorophenol	120-83-2	1.96	0.098
92	1,2-Dichloropropane	78-87-5	1.2	0.06

93	1,3-Dichloroprone (total = cis- + trans-)	542-75-6	0.8	0.04
94	Dieldrin	60-57-1	0.0044	0.00022
95	Diethyl phthalate	84-66-2	280	NA
96	Dimethoate	60-51-5	0.0036	0.00018
97	3,3'-Dimethylbenzidine	119-93-7	0.21	NA
98	2,4-Dimethylphenol (m-xylenol)	105-67-9	140	NA
99	alpha, alpha-Dimethylphenylamine	122-09-8	0.013	0.00065
100	Dimethyl phthalate	131-11-3	280	NA
101	m-Dinitrobenzene (1,3-)	99-65-0	4	0.2
102	2,4-Dinitrophenol	51-28-5	78	3.9
103	**2,4-Dinitrotoluene**	**121-14-2**	**2.6**	**0.13**
104	2,6-Dinitrotoluene	606-20-2	0.1	0.005
105	Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	88-85-7	14	0.7
106	Di-n-octyl phthalate	117-84-0	200	10
107	1,4-Dioxane (p-dioxane)	123-91-1	6	0.3
108	Diphenyl (1,1-Biphenyl)	92-52-4	43	NA
109	Diphenylamine	122-39-4	130	NA
110	Disulfoton	298-04-4	0.6	0.3
111	Endosulfan	115-29-7	0.66	NA
112	Endosulfan II	33213-65-9	1.3	NA
113	Endothall	145-73-3	200	10
114	**Endrin**	**72-20-8**	**0.4**	**0.02**
115	Epichlorohydrin	106-89-8	8	0.4
116	Ethyl acetate	141-78-6	330	NA
117	Ethylbenzene	100-41-4	27	NA

118	Ethylene glycol	107-21-1	20000	1000
119	Ethyl methacrylate	97-63-2	1600	NA
120	Fluoranthene	206-44-0	34	NA
121	Fluorene	86-73-7	34	NA
122	Fluoride	16984-48-8	4000	200
123	Glyphosate	1071-83-6	4000	200
124	**Heptachlor**	**76-44-8**	**0.16**	**0.008**
125	**Heptachlor epoxide**	**1024-57-3**	**0.16**	**0.008**
126	Heptane (n-heptane)	142-82-5	58	NA
127	**Hexachlorobenzene**	**118-74-1**	**2.6**	**0.13**
128	**Hexachlorobutadiene**	**87-68-3**	**10**	**0.5**
129	Hexachlorocyclopentadiene	77-47-4	1.6	NA
130	**Hexachloroethane**	**67-72-1**	**60**	**3**
131	Hexachlorophene (Hexachloropropylene)	70-30-4	12	0.6
132	Hexane (n-hexane)	110-54-3	540	NA
133	2-Hexanone (methyl butyl ketone)	591-78-6	80	4
134	Indeno (1,2,3-cd)pyrene	193-39-5	0.1	0.005
135	Isobutyl alcohol	78-83-1	1460	73
136	Isophorone	78-59-1	80	4
137	Isopropyl benzene (Cumene)	98-82-8	140	7
138	Isopropyl ether	108-20-3	140	7
139	Kepone	143-50-0	0.007	0.00035
140	**Lead**	**7439-92-1**	**100**	**5**
141	**Mercury and compounds**	**7487-94-7**	**4**	**0.2**
142	Methacrylonitrile	126-98-7	3.8	0.19

143	Methanol	67-56-1	150	7.5
144	**Methoxychlor**	**72-43-5**	**200**	**10**
145	Methyl bromide; Bromomethane	74-83-9	6.4	NA
146	Methyl chloride; Chloromethane	74-87-3	6	0.3
147	Methylene bromide; Dibromomethane	74-95-3	21	NA
148	Methylene chloride; Dichloromethane	75-09-2	10	0.5
149	**Methyl ethyl ketone; MEK; 2-butanone**	**78-93-3**	**4000**	**200**
150	Methyl methacrylate	80-62-6	50	2.5
151	2-Methylnaphthalene	91-57-6	60	3
152	Methyl parathion; Parathion methyl	298-00-0	9	0.45
153	4-Methyl-2-pentanone; Methyl isobutyl ketone (MIBK)	108-10-1	200	10
154	Methyl tert-butyl ether (MTBE)	1634-04-4	40	2
155	Naphthalene	91-20-3	8.8	NA
156	Nickel	7440-02-0	200	10
157	o-Nitroaniline (2-nitroaniline)	88-74-4	140	NA
158	**Nitrobenzene**	**98-95-3**	**40**	**2**
159	p-Nitrophenol (4-nitrophenol)	100-02-7	290	NA
160	N-Nitrosodi-n-butylamine	924-16-3	0.0054	0.00027
161	N-Nitrosodiethylamine	55-18-5	0.00034	0.000017
162	N-Nitrosodimethylamine	62-75-9	0.0014	0.00007
163	N-Nitrosodiphenylamine	86-30-6	24	1.2
164	N-Nitrosodipropylamine; Di-n-propylnitrosoamine	621-64-7	0.022	0.0011
165	N-Nitrosomethylethylamine	10595-95-6	0.00142	0.000071
166	N-Nitrosopyrrolidine	930-55-2	0.074	0.0037

167	Oxamyl (Vydate)	23135-22-0	400	20
168	Parathion	56-38-2	46	NA
169	Pentachlorobenzene	608-93-5	6.4	0.32
170	Pentachloronitrobenzene	82-68-8	0.24	0.012
171	**Pentachlorophenol**	**87-86-5**	**2000**	**100**
172	Phenanthrene	85-01-8	56	NA
173	Phenol	108-95-2	60	3
174	p-Phenylenediamine	106-50-3	40	2
175	Phorate	298-02-2	2	0.1
176	Picloram	1918-02-1	2800	140
177	Polychlorinated biphenyls; PCBs	1336-36-3	0.18	0.0009
178	Pronamide	23950-58-5	15	NA
179	n-Propylbenzene	103-65-1	140	5
180	Pydrin (Fenvalerate)	51630-58-1	100	50
181	Pyrene	129-00-0	82	NA
182	**Pyridine**	**110-86-1**	**100**	**5**
183	**Selenium**	**7782-49-2**	**20**	**1**
184	**Silver**	**7440-22-4**	**100**	**5**
185	**Silvex; 2,4,5-TP**	**93-72-1**	**20**	**1**
186	Simazine	122-34-9	8	0.4
187	Styrene (Ethenylbenzene)	100-42-5	140	7
188	2,4,5-T;2,4,5-Trichlorophenoxyacetic acid	93-76-5	79	NA
189	2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	4.00E-07	2.00E-08
190	1,2,4,5-Tetrachlorobenzene	95-94-3	4	0.2
191	1,1,1,2-Tetrachloroethane	630-20-6	2	0.1

192	1,1,2,2-Tetrachloroethane	79-34-5	0.4	0.02
193	**Tetrachloroethylene; Perchloro-ethylene; Tetrachloroethene**	**127-18-4**	**14**	**0.7**
194	2,3,4,6-Tetrachlorophenol	58-90-2	74	NA
195	Tetraethyl dithiopyrophosphate; Sulfotepp	3689-24-5	14.2	0.71
196	Tetrahydrofuran	109-99-9	4000	200
197	Thallium	7440-28-0	2.3	NA
198	Tin	7440-31-5	4000	200
199	Toluene	108-88-3	100	NA
200	**Toxaphene**	**8001-35-2**	**10**	**0.5**
201	1,2,4-Trichlorobenzene	120-82-1	55	NA
202	1,1,1-Trichloroethane; Methyl-chloroform	71-55-6	4000	200
203	1,1,2-Trichloroethane	79-00-5	1.2	0.06
204	**Trichloroethylene; Trichloroethene**	**79-01-6**	**10**	**0.5**
205	Trichlorofluoromethane	75-69-4	300	NA
206	**2,4,5-Trichlorophenol**	**95-95-4**	**8000**	**400**
207	**2,4,6-Trichlorophenol**	**88-06-2**	**40**	**2**
208	1,2,3-Trichloropropane	96-18-4	0.01	0.0005
209	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	76-13-1	300	NA
210	1,2,4-Trimethylbenzene	95-63-6	370	NA
211	1,3,5-Trimethylbenzene	108-67-8	320	NA
212	1,3,5-Trinitrobenzene	99-35-4	1180	59
213	Vanadium	7440-62-2	14	0.7
214	Vinyl acetate	108-05-4	176	8.8
215	**Vinyl chloride**	**75-01-4**	**4**	**0.2**

216	Xylene (total) (dimethyl benzene)	1330-20-7	300	NA
217	Zinc	7440-66-6	860	43