APPENDIX F

TIER 1 LCTV TABLES

This page intentionally left blank.

LIST OF TABLES

Page

This page intentionally left blank.

Table F-1: Landfill No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				2.2		2.2	3.3		2.2		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	2.2		2.2		0.49	2.2		0.091
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		2.2		2.2	5.4	1.0E+03 [b]	2.2		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		2.2		2.2		6.9	2.2		
Acetophenone	98-86-2		2.45E+00				2.2		2.2	5.4		2.2		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	2.6		2.6	0.013		2.6	5.5E-05	13
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		2.2		2.2	27	33	2.2		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	2.3		2.3	9.4E-03 [d]	0.088	2.3	4.1E-05 [d]	2.3E-03
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	1.3E+05		1.3E+05	97 [c]		1.4E+05	0.77 [c]	1.4 [c]
Allyl alcohol	107-18-6		1.22E-01				2.2		2.2	0.27		2.2		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	2.2		2.2		2.1	2.2	0.037	4.9
Anthracene	120-12-7		7.34E+00				2.3		2.3	17 [c]		2.3		
Antimony	7440-36-0	6.00E-03	9.79E-03					0.014		0.023				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				0.11		0.016			1.9E-04	
Barium	7440-39-3	2.00E+00	1.71E+00					4.3		3.8				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	5.3		5.4			5.4	4.3E-04	0.097 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	2.2	0.011	2.2		0.42	2.2	3.9E-03	3.6E-03
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	2.2		2.2	0.2		2.2	9.3E-07	5.7
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	58	0.012 [c]	59			59	7.8E-04	0.32 [c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	59		59			59	4.8E-03 [c]	0.037 [c]
Benzyl alcohol	100-51-6		7.34E+00				2.2		2.2	16		2.2		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	19 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					0.026		0.14				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	6.8		6.8		1.0E+03 [e]	6.8	6.00E-04	7.50E-03
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	2.2		2.2	2.2		2.2	3.10E-03	0.013
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	2.5	0.2	2.5	1.2		2.5	3.9E-03	2.0E-03
Bromomethane	74-83-9		3.43E-02		1.50E-02		2.1E+07		2.1E+07	80 [d]	1.0E+03 [b]	2.1E+07		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	2.2		2.2		0.13	2.2		8.9E-05
Butanol n-	71-36-3		2.45E+00				2.2		2.2	5.4		2.2		
Butyl benzyl phthalate	85-68-7		4.90E+00				2.7		2.7	13 [c]		2.7		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				2.2	0.015	2.2	0.054		2.2		
Cadmium	7440-43-9	5.00E-03	1.22E-02					0.011		0.027				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		2.4		2.4	5.9	4.6	2.4		
Carbon tetrachloride	56-23-5	5.00E-03	0.0171	7.43E-04	0.021	7.60E-04	2.8	0.014	2.8	0.048	0.059	2.8	2.1E-03	2.2E-03
Chlordane	57-74-9	2.00E-03	0.0122	2.76E-04	2.80E-02	1.50E-03	160	0.030 [a]	160	0.030 [a]	0.030 [a]	160	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		2.2		2.2	1.1	0.049	2.2		
Chloroaniline p-	106-47-8		9.79E-02				2.2		2.2	0.22		2.2		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		2.2	0.22	2.2	1.1	0.44	2.2		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	5.8		5.8	2.8		5.8	2.1E-03	6.9
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	2.4	0.19	2.4	1.2		2.4	2.7E-03	1.8E-03
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		2.2		2.2		66	2.2		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		2.3	0.18	2.3	0.55	0.74	2.3		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	2.2		2.2		0.57	2.2	0.016	0.013
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		2.2		2.2	0.27	0.022	2.2		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					0.31		81				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					0.25		0.19				
Chrysene	218-01-9			8.05E-04		7.30E-03	5.3		5.4			5.4	4.3E-03 [c]	0.039 [c]

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-1: Landfill No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Cobalt	7440-48-4		4.90E-01							1.1				
Copper	7440-50-8	1.30E+00						3						
Cresol m-	108-39-4		1.22E+00		1.20E+03		2.2		2.2	2.7	200 [a]	2.2		
Cresol o-	95-48-7		1.22E+00		8.80E+02		2.2		2.2	2.7	200 [a]	2.2		
Cresol p-	106-44-5		1.22E-01		1.30E+03		2.2		2.2	0.27	200 [a]	2.2		
Cresols	1319-77-3		1.22E+00		1.10E+03		2.2		2.2	2.7	1.0E+03 [b]	2.2		
Cumene	98-82-8		2.45E+00		1.30E+00		2.2		2.2	5.5	2.9	2.2		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		2.2		2.2	9.2E-04	8.6E-04	2.2		
Cyclohexanone	108-94-1		1.22E+02				2.2		2.2	270		2.2		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.8E+13		1.8E+13			1.8E+13	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			8.0E+03		8.0E+03			8.0E+03	13	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.2E+10		1.2E+10			1.2E+10	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	2.8	5.5E-04	2.8		8.0E-03	2.8	1.9E-04	0.22
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		2.2	1.3	2.2	4.9	1.7	2.2		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	2.2	0.17	2.2		6.7	2.2	8.9E-03	2.9E-03
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	2.2		2.2			2.2	4.8E-04	11 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		2.2		2.2	11	1.3	2.2		
Dichloroethane 1,1-	75-34-3		2.45		1.6	7.40E-03	2.5	9.9E-03 [e]	2.5	0.36 [d]	0.45 [d]	2.5	6.7E-04 [e]	0.012 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	2.5	7.0E-03 [d]	2.5	0.26 [e]	0.32 [d]	2.5	4.7E-04 [d]	1.5E-03
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				2.2	0.15	2.2	0.54		2.2		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				2.2	0.22	2.2	1.1		2.2		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	2.2	0.016	2.2	0.49	0.47	2.2	3.6E-04	4.9E-04
Dichlorophenol 2,4-	120-83-2		7.34E-02				2.2		2.2	0.16		2.2		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				2.2	0.15	2.2	0.54		2.2		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		3.2	0.016	3.2	7	0.044	3.2	4.5E-03	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	2.2		2.2	1.6	0.13	2.2	2.1E-03	6.4E-03
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.5E+15		1.5E+15	1.0E+03 [b,c]		1.5E+15	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				2.9		2.9	58		2.9		
Diethylstilbestrol	56-53-1			2.05E-08			2.3		2.3			2.3	4.7E-08	
Dimethoate	60-51-5		4.90E-03				550		550	0.55 [d]	1.0E+03 [b]	550		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			2.2		2.2			2.2	0.015	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		2.2		2.2	5.4	1.0E+03 [b]	2.2		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	6.5E+12		6.6E+12			6.6E+12		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			2.2		2.2			2.2	2.3E-05	
Dimethylphenol 2,4-	105-67-9		4.90E-01				2.2		2.2	1.1		2.2		
Di-n-butyl phthalate	84-74-2		2.45E+00				2.8		2.8	6.7		2.8		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				2.2		2.2	5.4E-03		2.2		
Dinitrophenol 2,4-	51-28-5		4.90E-02				2.2		2.2	0.11		2.2		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	2.2		2.2	0.11		2.2	3.1E-04	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			2.2		2.2	0.054		2.2	3.1E-04	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.00E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	2.2		2.2		1.0E+03 [b]	2.2	0.019	0.4
Diphenylamine	122-39-4		6.12E-01				2.2		2.2	1.4		2.2		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	2.2		2.2			2.2	2.70E-04	0.044
Disulfoton	298-04-4		9.79E-04				2.1E+06		2.20E+06	1.0E+03 [b,c]		2.20E+06		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-1: Landfill No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				2.2		2.2	0.33		2.2		
Endrin	72-20-8	2.00E-03	7.34E-03				7.7E+04	0.02 [a]	7.7E+04	0.020 [a]		7.7E+04		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		2.2		2.2		0.53	2.2		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		2.2		2.2	22	1.0E+03 [b]	2.2		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		2.2		2.2	16	660	2.2		
Ethyl acetate	141-78-6		2.20E+01				7.4		7.4	160		7.4		
Ethyl ether	60-29-7		4.9				2.2		2.2	11		2.2		
Ethyl methacrylate	97-63-2		2.20E+00				3.9		3.9	8.5		3.9		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	2.2	1.6	2.2	5.4	7.3	2.2		0.024
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	25	1.3E-03	25		0.025	25	2.9E-05	2.1E-03
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		2.2		2.2	110	1.0E+03 [b]	2.2		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	2.2		2.2	4.3E-03		2.2	1.9E-03	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				2.5		2.5	2.5 [c]		2.5		
Fluoride	16984-48-8	4.00E+00	2.90E+00					8.7		6.3				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.5	2.2		2.2	11	110	2.2		3.3
Formic acid	64-18-6		4.90E+01				2.2		2.2	110		2.2		
Furfural	98-01-1		7.34E-02		2.20E+01		2.2		2.2	0.16	49	2.2		
HCH beta-	319-85-7			5.36E-05		1.70E-02	2.2		2.2			2.2	1.2E-04	0.038
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	4.2E+06	0.26 [c,d]	4.3E+06	0.4 [a,b,c,d]	0.4 [a,e]	4.3E+06	0.4 [a,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		0.196	1.53E-05		3.60E-04	7.4E+06	0.25 [e]	7.6E+06	0.56 [d]	3.0 [c,e]	7.6E+06	120 [c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	3.9E+08	1.0E+03 [b,c]	3.9E+08	1.0E+03 [b,c]		3.9E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	2.4		2.4	0.018		2.4	3.0E-03	1.5E-03
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	6.3	6.3E-03 [c]	6.3	0.12 [c]		6.3	3.8E-04	2.3E-04
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	4.6E+07		4.6E+07			4.8E+07	0.30 [c]	6.9 [c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	2.2		2.2	0.055		2.2	0.015	7.4E-03
Hexachlorophene	70-30-4		7.34E-03				3.1		3.1	0.023		3.1		
Hexane n-	110-54-3		2.69E+02		6.60E-01		2.2		2.2	600 [c]	1.5	2.2		
Hydrogen Sulfide	7783-06-4		7.34E-02				2.2		2.2	0.16		2.2		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	1.3E+06		1.3E+06			1.3E+06	110 [c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				2.2		2.2	16		2.2		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		2.2		2.2	11	1.0E+03 [b]	2.2	0.23	
Kepone	143-50-0		1.22E-02				2.3		2.3	0.028		2.3		
Lead	7439-92-1	1.50E-02						0.037						
Manganese	7439-96-5		1.15E+00							2.5				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			5.8E-03		7.2E-03	2.1E-03			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		2.3		2.3	5.7E-03	0.015	2.3		
Methanol	67-56-1		1.22E+01		1.54E+03		2.2		2.2	27	1.0E+03 [b]	2.2		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a,c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		2.2		2.2	0.054	970	2.2		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		2.2		2.2	0.11	1.0E+03 [b]	2.2		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		2.2		2.2	32	73	2.2		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		2.2		2.2	4.3	2.7	2.2		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-1: Landfill No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation			LCTV based on MCL (mg/L)	Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF		7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		4.6		4.6	84 [d]	24	4.6		
Methyl parathion	298-00-0		6.12E-03				8.1E+04		8.1E+04	1.3 [c,d]	1.0E+03 [e]	8.1E+04		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		2.2		2.2		38	2.2		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				2.2		2.2	0.54		2.2		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	2.2	0.011	2.2	3.3	22	2.2	0.029	0.063
Molybdenum	7439-98-7		1.22E-01							0.28				
Naphthalene	91-20-3		4.90E-01		1.90E-02		2.2		2.2	1.1	0.042	2.2		
Nickel	7440-02-0		4.90E-01							1.1				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		2.2		2.2	0.027	0.33	2.2		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	2.2		2.2		0.73	2.2		5.1E-05
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	2.2		2.2			2.2	1.4E-06	9.5E-05
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	2.2		2.2	4.30E-04		2.2	4.2E-06	8.8E-04
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	2.2		2.2			2.2	4.0E-05	4.4E-05
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	2.2		2.2			2.2	3.0E-05	3.3E-03
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	2.2		2.2	1.1		2.2	0.044	1.2
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	2.2		2.2			2.2	9.7E-06	9.9E-03
Nitrosopiperidine N-	100-75-4					8.70E-03	2.2		2.2			2.2		0.019
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	2.2		2.2			2.2	1.0E-04	2
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				2.3		2.3	0.11		2.3		
Parathion (ethyl)	56-38-2		0.147				1.1E+09		1.2E+09	1.0E+03 [b,c]		1.2E+09		
Pentachlorobenzene	608-93-5		1.96E-02				6.1		6.1	0.12		6.1		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	3		3			3	3.7E-09	1.9E-07
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	4.4E+06		4.5E+06			4.5E+06	2.8E-03 [c]	0.27 [c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			2.5		2.5	0.18		2.5	9.2E-04	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	2.2	2.2E-03	2.2	1.6		2.2	1.8E-03	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		2.2		2.2	32	1.0E+03 [b]	2.2		
Phenyl mercuric acetate	62-38-4		1.96E-03				2.2		2.2	4.3E-03		2.2		
Phenylenediamine 1,3-	108-45-2		1.47E-01				2.2		2.2	0.32		2.2		
Phorate	298-02-2		4.90E-03				1.00E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.00E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	1.70E+05	83 [c]	1.7E+05	82 [c]		1.7E+05	40 [c]	23 [c]
Pronamide	23950-58-5		1.84E+00				2.3		2.3	4.2		2.3		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	2.2		2.2		1.1	2.2	8.9E-04	0.038
Pyrene	129-00-0		7.34E-01				2.9		2.9	2.2 [c]		2.9		
Pyridine	110-86-1		2.45E-02		1.40E+00		2.2		2.2	0.054	3.1	2.2		
Safrole	94-59-7			5.36E-04			2.2		2.2			2.2	1.2E-03	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.12		0.3				
Silver	7440-22-4		1.22E-01							0.37				
Strychnine and salts	57-24-9		7.34E-03				2.2		2.2	0.016		2.2		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		2.2	0.22	2.2	11	8	2.2		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				2.3		2.3	0.017		2.3		
Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	2.2E+12		2.2E+12			2.2E+12	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	1.4E+04	4.1E-04 [c]	1.4E+04	3.4E-04 [c]		1.4E+04	9.0E-06 [c]	3.1E-05 [c]
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	3	0.014 [e]	3	2.2		3	0.011	5.7E-03
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	17	0.014 [e]	17	24	0.64 [e]	17	8.0E-03	8.3E-03
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	2.2	0.011	2.2	0.54	0.70 [a]	2.2	4.10E-03	0.047
Tetrachlorophenol 2,3,4,6-	58-90-2		0.734				2.2		2.2	1.6		2.2		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-1: Landfill No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Thallium	7440-28-0	2.00E-03	1.96E-03					5.8E-03		5.8E-03				
Thiram [Thiuram]	137-26-8		1.22E-01				2.2		2.2	0.27		2.2		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		2.2	2.2	2.2	11	2.9	2.2		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	2.2		2.2			2.2	6.7E-05	17
Toluidine o-	95-53-4			4.02E-04		3.60E-02	2.2		2.2			2.2	8.9E-04	0.08
Toluidine p-	106-49-0			5.08E-04			2.2		2.2			2.2	1.1E-03	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	6.3E+03	0.50 [a]	6.3E+03			6.3E+03	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	2.3	0.18	2.3	1.1		2.3	0.028	0.044
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		2.2		2.2	1.0E+03 [b,c]	210 [c]	2.2		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		2.3	0.16	2.3	0.56	1.9	2.3		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		98	0.021 [d]	98	0.67 [d]	0.64 [d]	98	4.9E-04 [e]	6.72E-04 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	0.0979	1.69E-03		1.10E-03	2.5	0.012	2.5	0.24	0.64 [e]	2.5	4.9E-04 [d]	6.7E-04 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	2.2	0.011	2.2		0.50 [a]	2.2	0.019	0.015
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		2.2		2.2	16	4.7	2.2		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				2.2		2.2	5.4		2.2		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	2.2		2.2			2.2	0.019	0.62
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				2.2	0.11	2.2	0.43		2.2		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				2.2		2.2	0.54		2.2		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		2.7		2.7	0.39	0.09	2.7	3.7E-05	
Triethylamine	121-44-8				1.10E-01		2.2		2.2		0.24	2.2		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				2.2		2.2	1.6		2.2		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			21		21			21	2.0E-04	
Vanadium	7440-62-2		1.71E-01							0.5				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		2.2		2.2	54	2.7	2.2		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	2.2	4.4E-03	2.2	0.16	0.20 [a]	2.2	3.0E-04	5.5E-03
Xylene m-	108-38-3		4.90E+01		1.30E+00		2.2		2.2	110	2.9	2.2		
Xylene o-	95-47-6		4.90E+01		1.40E+00		2.2		2.2	110	3.1	2.2		
Xylene p-	106-42-3		4.90E+01		1.30E+00		2.2		2.2	110	2.9	2.2		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		2.2	22	2.2	110	3.1	2.2		
Zinc	7440-66-6		7.34E+00							16				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-2: Landfill Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation			LCTV based on MCL (mg/L)	Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF		7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				6.4		6.4	9.4 [c]		6.4		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	6.1		6.1		1.3	6.1		0.25
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		6.1		6.1	15	1.0E+03 [b]	6.1		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		6.1		6.1		19	6.1		
Acetophenone	98-86-2		2.45E+00				6.1		6.1	15		6.1		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	8.8		8.8	0.043		8.8	1.9E-04	45
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		6.1		6.1	74	91	6.1		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	6.6		6.6	0.032 [d]	0.25	6.6	1.4E-04 [d]	6.6E-03
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	1.6E+15		1.6E+15	1.0E+03 [b,c]		1.6E+15	1.0E+03 [b,c]	1.0E+03 [b,c]
Allyl alcohol	107-18-6		1.22E-01				6.1		6.1	0.74		6.1		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	6.1		6.1		5.7	6.1	0.10	13
Anthracene	120-12-7		7.34E+00				7.2		7.2	53 [c]		7.2		
Antimony	7440-36-0	6.00E-03	9.79E-03					0.040		0.068				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				0.33		0.050			1.3E-03	
Barium	7440-39-3	2.00E+00	1.71E+00					13		12				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	280		280			280	0.023 [c]	5.1 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	6.1	0.030	6.1		0.50 [a]	6.1	0.011	0.010
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	6.1		6.1	0.45		6.1	2.6E-06	16
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	5.1E+06	1.0E+03 [b, c]	5.1E+06			5.2E+06	69 [c]	1.0E+03 [b,c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	6.2E+06		6.2E+06			6.4E+06	520 [c]	1.0E+03 [b,c]
Benzyl alcohol	100-51-6		7.34E+00				6.1		6.1	45		6.1		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	52 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					0.13		0.45				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	79		79		1.0E+03 [e]	79	7.0E-03	0.087
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	6.1		6.1	6.0		6.1	8.4E-03	0.036
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	7.5	0.60	7.5	3.7		7.5	0.012	6.0E-03
Bromomethane	74-83-9		3.43E-02		1.50E-02		1.0E+30		1.0E+30	220 [d]	1.0E+03 [b]	1.0E+30		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	6.1		6.1		0.37	6.1		2.4E-04
Butanol n-	71-36-3		2.45E+00				6.1		6.1	15		6.1		
Butyl benzyl phthalate	85-68-7		4.90E+00				11		11	52 [c]		11		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				6.1	0.043	6.1	0.15		6.1		
Cadmium	7440-43-9	5.00E-03	1.22E-02					0.033		0.083				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		7.1		7.1	17	13	7.1		
Carbon tetrachloride	56-23-5	5.00E-03	0.0171	7.43E-04	0.021	7.60E-04	11.0	0.055	11	0.2	0.23	11	8.2E-03	8.4E-03
Chlordane	57-74-9	2.00E-03	0.0122	2.76E-04	2.80E-02	1.50E-03	8.2E+07	0.030 [a]	8.4E+07	0.030 [a]	0.030 [a]	8.5E+07	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		6.1		6.1	3.0	0.13	6.1		
Chloroaniline p-	106-47-8		9.79E-02				6.1		6.1	0.6		6.1		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		6.1	0.61	6.1	3.0	1.2	6.1		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	36		36	17 [c]		36	0.013	43 [c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	6.9	0.55	6.9	3.4		6.9	7.9E-03	5.2E-03
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		6.1		6.1		180	6.1		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		6.3	0.50	6.3	1.5	2.1	6.3		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	6.1		6.1		1.6	6.1	0.045	0.036
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		6.1		6.1	0.74	0.059	6.1		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					1.3		260				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					1.0		0.75				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-2: Landfill Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chrysene	218-01-9			8.05E-04		7.30E-03	280		280			280	0.23 [c]	2.0 [c]
Cobalt	7440-48-4		4.90E-01							3.1				
Copper	7440-50-8	1.30E+00						9.4						
Cresol m-	108-39-4		1.22E+00		1.20E+03		6.1		6.1	7.4	200 [a]	6.1		
Cresol o-	95-48-7		1.22E+00		8.80E+02		6.1		6.1	7.4	200 [a]	6.1		
Cresol p-	106-44-5		1.22E-01		1.30E+03		6.1		6.1	0.74	200 [a]	6.1		
Cresols	1319-77-3		1.22E+00		1.10E+03		6.1		6.1	7.4	1.0E+03 [b]	6.1		
Cumene	98-82-8		2.45E+00		1.30E+00		6.2		6.2	15	8.0	6.2		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		6.1		6.1	2.5E-03	2.4E-03	6.1		
Cyclohexanone	108-94-1		1.22E+02				6.1		6.1	740		6.1		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			4.9E+08		4.9E+08			4.9E+08	1.0E+03 [b,c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	9.8	2.0E-03	9.8		0.028	9.8	6.7E-04	0.77
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		6.1	3.7	6.1	13	4.7	6.1		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	6.1	0.46	6.1		7.5 [a]	6.1	0.025	7.9E-03
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	6.1		6.1			6.1	1.3E-03	0.30 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		6.1		6.1	30	3.5	6.1		
Dichloroethane 1,1-	75-34-3		2.45		1.6	7.40E-03	7.8	0.027 [e]	7.8	0.45 [d]	0.45 [d]	7.8	1.8E-03 [e]	0.034 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	7.6	0.019 [d]	7.6	0.32 [e]	0.32 [d]	7.6	1.3E-03 [d]	4.8E-03
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				6.1	0.43	6.1	1.5		6.1		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				6.1	0.61	6.1	3.0		6.1		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	6.1	0.043	6.1	0.70 [a]	0.70 [a]	6.1	9.8E-04	1.3E-03
Dichlorophenol 2,4-	120-83-2		7.34E-02				6.1		6.1	0.45		6.1		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				6.1	0.43	6.1	1.5		6.1		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		14.0	0.071	14.0	31	0.20	14.0	0.02	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	6.1		6.1	4.5	0.37	6.1	5.9E-03	0.018
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				11		11	220		11		
Diethylstilbestrol	56-53-1			2.05E-08			6.8		6.8			6.8	1.4E-07	
Dimethoate	60-51-5		4.90E-03				1.1E+06		1.2E+06	1.5 [d]	1.0E+03 [e]	1.2E+06		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			6.1		6.1			6.1	0.042	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		6.1		6.1	15	1.0E+03 [b]	6.1		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			6.1		6.1			6.1	6.4E-05	
Dimethylphenol 2,4-	105-67-9		4.90E-01				6.1		6.1	3.0		6.1		
Di-n-butyl phthalate	84-74-2		2.45E+00				12		12	28 [c]		12		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				6.1		6.1	0.015		6.1		
Dinitrophenol 2,4-	51-28-5		4.90E-02				6.1		6.1	0.30		6.1		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	6.1		6.1	0.13 [a]		6.1	8.6E-04	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			6.1		6.1	0.15		6.1	8.6E-04	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	6.1		6.1		1.0E+03 [b]	6.1	0.053	1.1

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-2: Landfill Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation			LCTV based on MCL (mg/L)	Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF		7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Diphenylamine	122-39-4		6.12E-01				6.1		6.1	3.8		6.1		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	6.1		6.1			6.1	7.4E-04	0.12
Disulfoton	298-04-4		9.79E-04				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				6.3		6.3	0.92 [c]		6.3		
Endrin	72-20-8	2.00E-03	7.34E-03				1.1E+22	0.020 [a,]	1.1E+22	0.020 [a]		1.1E+22		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		6.1		6.1		1.5	6.1		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		6.1		6.1	60	1.0E+03 [b]	6.1		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		6.1		6.1	45	1.0E+03 [b]	6.1		
Ethyl acetate	141-78-6		2.20E+01				55		55	1.0E+03 [b]		55		
Ethyl ether	60-29-7		4.9				6.1		6.1	30		6.1		
Ethyl methacrylate	97-63-2		2.20E+00				17		17	37		17		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	6.1	4.3	6.1	15	20	6.1		0.067
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	1.3E+03	0.063	1.3E+03		1.2	1.3E+03	1.4E-03	0.11
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		6.1		6.1	300	1.0E+03 [b]	6.1		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	6.1		6.1	0.012		6.1	5.3E-03	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				11		11	11 [c]		11		
Fluoride	16984-48-8	4.00E+00	2.90E+00					27		20				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.5	6.1		6.1	30	310	6.1		9.1
Formic acid	64-18-6		4.90E+01				6.1		6.1	300		6.1		
Furfural	98-01-1		7.34E-02		2.20E+01		6.1		6.1	0.45	130	6.1		
HCH beta-	319-85-7			5.36E-05		1.70E-02	6.2		6.2			6.2	3.3E-04	0.10
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	1.0E+30	0.4 [a,d]	1.0E+30	0.4 [a,d]	0.4 [a,e]	1.0E+30	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		0.196	1.53E-05		3.60E-04	1.0E+30	0.74 [e]	1.0E+30	1.6 [d]	8.8 [c,e]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	8.8		8.8	0.065		8.8	0.011	5.4E-03
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	570	0.13 [a, c]	580	0.13 [a,c]		580	0.035 [c]	0.021 [c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	6.3		6.3	0.15		6.3	0.043	0.021
Hexachlorophene	70-30-4		7.34E-03				31		31	0.22		31		
Hexane n-	110-54-3		2.69E+02		6.60E-01		6.1		6.1	1.0E+03 [b,c]	4.0	6.1		
Hydrogen Sulfide	7783-06-4		7.34E-02				6.1		6.1	0.45		6.1		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				6.1		6.1	45		6.1		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		6.1		6.1	30	1.0E+03 [b]	6.1	0.62	
Kepone	143-50-0		1.22E-02				7.0		7.0	0.086		7.0		
Lead	7439-92-1	1.50E-02						0.15						
Manganese	7439-96-5		1.15E+00							8.0				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			0.019		0.20 [a,c]	9.4E-03			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		6.6		6.6	0.016	0.043	6.6		
Methanol	67-56-1		1.22E+01		1.54E+03		6.1		6.1	74	1.0E+03 [b]	6.1		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a,c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		6.1		6.1	0.15	1.0E+03 [b]	6.1		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-2: Landfill Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		6.1		6.1	0.30	1.0E+03 [b]	6.1		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		6.1		6.1	90	200 [a]	6.1		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		6.1		6.1	12	7.3	6.1		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		22		22	230 [d]	120	22		
Methyl parathion	298-00-0		6.12E-03				1.0E+30		1.0E+30	3.5 [d]	1.0E+03 [e]	1.0E+30		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		6.1		6.1		100	6.1		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				6.1		6.1	1.5		6.1		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	6.2	0.031	6.2	9.2	62	6.2	0.080	0.17
Molybdenum	7439-98-7		1.22E-01							0.90				
Naphthalene	91-20-3		4.90E-01		1.90E-02		6.1		6.1	3.0	0.12	6.1		
Nickel	7440-02-0		4.90E-01							3.3				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		6.1		6.1	0.074	0.91	6.1		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	6.1		6.1		2.0	6.1		1.4E-04
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	6.1		6.1			6.1	3.9E-06	2.6E-04
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	6.1		6.1	1.2E-03		6.1	1.2E-05	2.4E-03
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	6.1		6.1			6.1	1.1E-04	1.2E-04
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	6.1		6.1			6.1	8.4E-05	9.1E-03
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	6.1		6.1	3.0		6.1	0.12	3.2
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	6.1		6.1			6.1	2.7E-05	0.027
Nitrosopiperidine N-	100-75-4					8.70E-03	6.1		6.1			6.1		0.053
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	6.1		6.1			6.1	2.8E-04	5.6
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				6.6		6.6	0.32		6.6		
Parathion (ethyl)	56-38-2		0.147				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorobenzene	608-93-5		1.96E-02				660		670	13 [c]		670		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	22		22			22	2.78E-08	1.4E-06
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			10		10	0.73 [c]		10	3.7E-03	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	6.1	6.E-03	6.1	4.5		6.1	4.9E-03	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		6.1		6.1	90	1.0E+03 [b]	6.1		
Phenyl mercuric acetate	62-38-4		1.96E-03				6.1		6.1	0.012		6.1		
Phenylenediamine 1,3-	108-45-2		1.47E-01				6.1		6.1	0.90		6.1		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	3.1E+15	1.0E+03 [b, c]	3.1E+15	1.0E+03 [b,c]		3.4E+15	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				6.5		6.5	12		6.5		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	6.1		6.1		3.0	6.1	2.4E-03	0.10
Pyrene	129-00-0		7.34E-01				22		22	16 [c]		22		
Pyridine	110-86-1		2.45E-02		1.40E+00		6.1		6.1	0.15	5.0 [a]	6.1		
Safrole	94-59-7			5.36E-04			6.1		6.1			6.1	3.3E-03	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.50		1.0 [a]				
Silver	7440-22-4		1.22E-01							5.0 [a]				
Strychnine and salts	57-24-9		7.34E-03				6.1		6.1	0.045		6.1		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		6.1	0.61	6.1	30	22	6.1		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				7.5		7.5	0.055		7.5		
Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	1.2E+13	1.0E+03 [b, c]	1.2E+13	1.0E+03 [b, c]		1.2E+13	1.0E+03 [b, c]	1.0E+03 [b, c]
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	13	0.039 [e]	13	9.4		13	0.047	0.024
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	200	0.039 [e]	200	300	0.64 [e]	200	0.068 [d]	0.053 [d]

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-2: Landfill Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	6.1	0.030	6.1	0.70 [a]	0.70 [a]	6.1	0.011	0.13
Tetrachlorophenol 2,3,4,6-	58-90-2		0.734				6.1		6.1	4.5		6.1		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					0.018		0.019				
Thiram [Thiuram]	137-26-8		1.22E-01				6.1		6.1	0.74		6.1		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		6.1	6.1	6.1	30	7.9	6.1		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	6.1		6.1			6.1	1.8E-04	46
Toluidine o-	95-53-4			4.02E-04		3.60E-02	6.1		6.1			6.1	2.4E-03	0.22
Toluidine p-	106-49-0			5.08E-04			6.1		6.1			6.1	3.1E-03	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	1.8E+08	0.50 [a]	1.8E+08			1.8E+08	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	6.5	0.52	6.5	3.2		6.5	0.080	0.12
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		6.1		6.1	1.0E+03 [b,c]	580 [c]	6.1		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		6.6	0.46	6.6	1.6	5.5	6.6		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		2.0E+04	0.059 [d]	2.0E+04	0.96 [d]	0.96 [d]	2.0E+04	1.4E-03 [e]	1.8E-03 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	0.0979	1.69E-03		1.10E-03	7.5	0.037	7.5	0.73	0.96 [e]	7.5	1.4E-03 [d]	1.8E-03 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	6.1	0.030	6.1		0.50 [a]	6.1	0.053	0.041
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		6.1		6.1	45	13	6.1		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				6.1		6.1	15		6.1		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	6.1		6.1			6.1	0.053	1.7
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				6.1	0.30	6.1	1.0 [a]		6.1		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				6.1		6.1	1.5		6.1		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		9.3		9.3	1.4	0.32	9.3	1.3E-04	
Triethylamine	121-44-8				1.10E-01		6.1		6.1		0.67	6.1		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				6.1		6.1	4.5		6.1		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			610		610			610	6.1E-03	
Vanadium	7440-62-2		1.71E-01							1.8				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		6.1		6.1	150	7.3	6.1		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	6.1	0.012	6.1	0.20 [a]	0.20 [a]	6.1	8.2E-04	0.015
Xylene m-	108-38-3		4.90E+01		1.30E+00		6.1		6.1	300 [c]	7.9	6.1		
Xylene o-	95-47-6		4.90E+01		1.40E+00		6.1		6.1	300 [c]	8.5	6.1		
Xylene p-	106-42-3		4.90E+01		1.30E+00		6.1		6.1	300 [c]	7.9	6.1		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		6.1	61	6.1	300 [c]	8.6	6.1		
Zinc	7440-66-6		7.34E+00							51				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-3: Landfill Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	1.5E+04		1.5E+04		1.0E+03 [b]	1.5E+04		620
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		1.5E+04		1.6E+04	1.0E+03 [b]	1.0E+03 [b]	1.6E+04		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		1.6E+04		1.6E+04		1.0E+03 [b]	1.6E+04		
Acetophenone	98-86-2		2.45E+00				2.1E+05		2.1E+05	1.0E+03 [b]		2.1E+05		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		1.5E+04		1.5E+04	1.0E+03 [b]	1.0E+03 [b]	1.5E+04		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	9.3E+05		9.3E+05	740 [d]	740 [d]	9.3E+05	170	750 [d]
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Allyl alcohol	107-18-6		1.22E-01				2.7E+05		2.7E+05	1.0E+03 [b]		2.7E+05		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	1.6E+04		1.6E+04		1.0E+03 [b,]	1.6E+04	270	1.0E+03 [b]
Anthracene	120-12-7		7.34E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Antimony	7440-36-0	6.00E-03	9.79E-03					1.0E+03 [b]		1.0E+03 [b]				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				5.0 [a]		5.0 [a]			5.0 [a]	
Barium	7440-39-3	2.00E+00	1.71E+00					100 [a]		100 [a]				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	1.9E+04	0.50 [a]	1.9E+04		0.50 [a]	1.9E+04	0.50 [a]	0.50 [a]
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	1.8E+04		1.9E+04	1.0E+03 [b,c]		1.9E+04	7.8E-03	1.0E+03 [b,c]
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	1.0E+30	1.0E+03 [b, c]	1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzyl alcohol	100-51-6		7.34E+00				1.6E+05		1.6E+05	1.0E+03 [b]		1.6E+05		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	1.0E+03 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					1.0E+03 [b]		1.0E+03 [b]				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	1.0E+30		1.0E+30		1.0E+03 [e]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	3.1E+04		3.1E+04	1.0E+03 [b]		3.1E+04	43	190
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	1.2E+07	1.0E+03 [b]	1.2E+07	1.0E+03 [b]		1.2E+07	1.0E+03 [b]	1.0E+03 [b]
Bromomethane	74-83-9		3.43E-02		1.50E-02		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	2.2E+04		2.2E+04		1.0E+03 [b,c]	2.2E+04		0.88
Butanol n-	71-36-3		2.45E+00				1.6E+05		1.6E+05	1.0E+03 [b]		1.6E+05		
Butyl benzyl phthalate	85-68-7		4.90E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				1.3E+06	1.0E+03 [b, c]	1.4E+06	1.0E+03 [b,c]		1.4E+06		
Cadmium	7440-43-9	5.00E-03	1.22E-02					1.0 [a]		1.0 [a]				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		2.4E+06		2.4E+06	1.0E+03 [b]	1.0E+03 [b]	2.4E+06		
Carbon tetrachloride	56-23-5	5.00E-03	0.0171	7.43E-04	0.021	7.60E-04	1.0E+30	0.50 [a]	1.0E+30	0.50 [a]	0.50 [a]	1.0E+30	0.50 [a]	0.50 [a]
Chlordane	57-74-9	2.00E-03	0.0122	2.76E-04	2.80E-02	1.50E-03	1.0E+30	0.030 [a]	1.0E+30	0.030 [a]	0.030 [a]	1.0E+30	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		1.8E+04		1.9E+04	1.0E+03 [b]	410	1.9E+04		
Chloroaniline p-	106-47-8		9.79E-02				3.4E+05		3.4E+05	1.0E+03 [b]		3.4E+05		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		3.3E+04	100 [a]	3.4E+04	100 [a]	100 [a,]	3.4E+04		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	1.4E+06	1.0E+03 [b,]	1.4E+06	1.0E+03 [b]		1.4E+06	1.0E+03 [b]	1.0E+03 [b]
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		1.5E+04		1.6E+04		1.0E+03 [b]	1.6E+04		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		9.7E+04	6.0 [a]	9.7E+04	6.0 [a]	6.0 [a]	9.7E+04		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	1.5E+04		1.5E+04		1.0E+03 [b,]	1.5E+04	110	90
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		1.9E+04		1.9E+04	1.0E+03 [b]	190	2.0E+04		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-3: Landfill Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					1.0E+03 [b]		1.0E+03 [b]				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				
Chrysene	218-01-9			8.05E-04		7.30E-03	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Cobalt	7440-48-4		4.90E-01							1.0E+03 [b]				
Copper	7440-50-8	1.30E+00						1.0E+03 [b]						
Cresol m-	108-39-4		1.22E+00		1.20E+03		1.9E+04		1.9E+04	200 [a]	200 [a]	1.9E+04		
Cresol o-	95-48-7		1.22E+00		8.80E+02		1.9E+04		1.9E+04	200 [a]	200 [a]	1.9E+04		
Cresol p-	106-44-5		1.22E-01		1.30E+03		1.9E+04		1.9E+04	200 [a]	200 [a]	1.9E+04		
Cresols	1319-77-3		1.22E+00		1.10E+03		2.3E+04		2.4E+04	1.0E+03 [b]	1.0E+03 [b]	2.4E+04		
Cumene	98-82-8		2.45E+00		1.30E+00		2.9E+05		3.0E+05	1.0E+03 [b,c]	1.00E+03 [b,c]	3.0E+05		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		1.7E+04		1.7E+04	7.0	6.6	1.7E+04		
Cyclohexanone	108-94-1		1.22E+02				6.1E+05		6.2E+05	1.0E+03 [b]		6.2E+05		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	1.0E+30	1.0E+03 [b]	1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		9.4E+04	1.0E+03 [b, c]	9.5E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	9.5E+04		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	9.0E+04	7.5 [a]	9.1E+04		7.5 [a]	9.1E+04	7.5 [a]	7.5 [a]
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	3.7E+05		3.7E+05			3.8E+05	82 [c]	1.0E+03 [b,c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		2.3E+04		2.3E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	2.3E+04		
Dichloroethane 1,1-	75-34-3		2.45		1.6	7.40E-03	1.0E+30	0.45 [e]	1.0E+30	0.45 [d]	0.45 [d]	1.0E+30	0.45 [e]	0.45 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	1.0E+30	0.32 [d]	1.0E+30	0.32 [e]	0.32 [d]	1.0E+30	0.32 [d]	0.32 [d]
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				4.0E+05	1.0E+03 [b]	4.1E+05	1.0E+03 [b]		4.1E+05		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				3.5E+05	1.0E+03 [b]	3.5E+05	1.0E+03 [b]		3.5E+05		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	1.8E+04	0.70 [a]	1.8E+04	0.70 [a]	0.70 [a,]	1.9E+04	0.70 [a]	070 [a]
Dichlorophenol 2,4-	120-83-2		7.34E-02				4.5E+07		4.6E+07	1.0E+03 [b]		5.0E+07		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				1.6E+05	0.4	1.6E+05	0.4		1.6E+05		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		1.0E+30	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	1.7E+04		1.7E+04	1.0E+03 [b]	1.0E+03 [b]	1.7E+04	17	50
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Diethylstilbestrol	56-53-1			2.05E-08			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Dimethoate	60-51-5		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b]	1.00E+03 [e]	1.0E+30		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			2.7E+05		2.7E+05			2.7E+05	1.0E+03 [b,c]	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		1.6E+04		1.6E+04	1.0E+03 [b]	1.0E+03 [b]	1.6E+04		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			8.8E+07		9.1E+07			9.5E+07	1.0E+03	
Dimethylphenol 2,4-	105-67-9		4.90E-01				8.7E+06		9.0E+06	1.0E+03 [b]		9.4E+06		
Di-n-butyl phthalate	84-74-2		2.45E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				2.2E+05		2.2E+05	540		2.2E+05		
Dinitrophenol 2,4-	51-28-5		4.90E-02				1.5E+05		1.5E+05	1.0E+03 [b]		1.5E+05		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-3: Landfill Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner								
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)			
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	2.0E+04		2.0E+04	0.13 [a]		2.0E+04	0.13 [a]	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			2.4E+05		2.4E+05	1.0E+03 [b,c]		2.4E+05	35	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	1.6E+04		1.6E+04		1.0E+03 [b]	1.6E+04	140	1.0E+03 [b]
Diphenylamine	122-39-4		6.12E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	6.1E+04		6.1E+04			6.1E+04	7.4	1.0E+03 [b,c]
Disulfoton	298-04-4		9.79E-04				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endrin	72-20-8	2.00E-03	7.34E-03				1.0E+30	0.020 [a]	1.0E+30	0.020 [a]		1.0E+30		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		1.6E+04		1.6E+04		1.0E+03 [b]	1.6E+04		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		1.6E+04		1.6E+04	1.0E+03 [b]	1.0E+03 [b]	1.6E+04		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		1.7E+04		1.7E+04	1.0E+03 [b]	1.0E+03 [b]	1.7E+04		
Ethyl acetate	141-78-6		2.20E+01				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Ethyl ether	60-29-7		4.9				1.6E+05		1.6E+05	1.0E+03 [b]		1.6E+05		
Ethyl methacrylate	97-63-2		2.20E+00				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	8.0E+04	1.0E+03 [b, c]	8.1E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	8.1E+04		890 [c]
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	1.0E+30	1.0E+03 [b,	1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		1.5E+04		1.5E+04	1.0E+03 [b]	1.0E+03 [b]	1.5E+04		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	1.6E+04		1.6E+04	32		1.6E+04	14	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Fluoride	16984-48-8	4.00E+00	2.90E+00					1.0E+03 [b]		1.0E+03 [b]				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.5	1.4E+04		1.4E+04	1.0E+03 [b]	1.0E+03 [b]	1.4E+04		1.0E+03 [b]
Formic acid	64-18-6		4.90E+01				1.4E+05		1.5E+05	1.0E+03 [b]		1.5E+05		
Furfural	98-01-1		7.34E-02		2.20E+01		1.6E+04		1.6E+04	1.0E+03 [b]	1.0E+03 [b]	1.6E+04		
HCH beta-	319-85-7			5.36E-05		1.70E-02	3.5E+05		3.6E+05			3.6E+05	19 [c]	1.0E+03 [b,c]
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	1.0E+30	0.4 [a,b,c]	1.0E+30	0.4 [a,b,c]	0.4 [a,e]	1.0E+30	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		0.196	1.53E-05		3.60E-04	1.0E+30	1.0E+03 [b,e]	1.0E+30	1.0E+03 [b,c]	1.00E+03 [e]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	2.5E+11		2.6E+11	0.50 [a]		2.6E+11	0.50 [a]	0.50 [a]
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	1.0E+30	0.13 [a, c]	1.0E+30	0.13 [a,c]		1.0E+30	0.13 [a,c]	0.13 [a,c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.00E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	6.0E+05		6.0E+05	3.0 [a]		6.0E+05	3.0 [a]	3.0 [a]
Hexachlorophene	70-30-4		7.34E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Hexane n-	110-54-3		2.69E+02		6.60E-01		7.2E+04		7.3E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	7.3E+04		
Hydrogen Sulfide	7783-06-4		7.34E-02				1.4E+05		1.5E+05	1.0E+03 [b]		1.5E+05		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				1.5E+05		1.5E+05	1.0E+03 [b]		1.5E+05		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		2.1E+04		2.2E+04	1.0E+03 [b]	1.0E+03 [b]	2.2E+04	1.0E+03 [b]	
Kepone	143-50-0		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Lead	7439-92-1	1.50E-02						5.0 [a]						

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-3: Landfill Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Manganese	7439-96-5		1.15E+00							1.0E+03 [b]				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			0.20 [a,c]		0.20 [a,c]	0.20 [a,c]			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		9.8E+05		9.8E+05	1.0E+03 [b]	1.0E+03 [b]	9.8E+05		
Methanol	67-56-1		1.22E+01		1.54E+03		1.4E+04		1.4E+04	1.0E+03 [b]	1.0E+03 [b]	1.4E+04		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a, c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		1.6E+04		1.6E+04	390	1.0E+03 [b]	1.6E+04		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		1.6E+04		1.7E+04	810	1.0E+03 [b]	1.7E+04		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		1.6E+04		1.6E+04	200 [a]	200 [a]	1.6E+04		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		1.7E+04		1.7E+04	1.0E+03 [b]	1.0E+03 [b]	1.7E+04		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		1.0E+30		1.0E+30	1.0E+03 [b,d]	1.0E+03 [b]	1.0E+30		
Methyl parathion	298-00-0		6.12E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]	1.00E+03 [e]	1.0E+30		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		1.7E+04		1.7E+04		1.0E+03 [b]	1.7E+04		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				2.0E+05		2.0E+05	1.0E+03 [b]		2.0E+05		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	6.2E+05	1.0E+03 [b]	6.3E+05	1.0E+03 [b]	1.0E+03 [b]	6.3E+05	1.0E+03 [b]	1.0E+03 [b]
Molybdenum	7439-98-7		1.22E-01							1.0E+03 [b]				
Naphthalene	91-20-3		4.90E-01		1.90E-02		1.1E+05		1.1E+05	1.0E+03 [b,c]	1.0E+03 [b,c]	1.1E+05		
Nickel	7440-02-0		4.90E-01							1.0E+03 [b]				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		1.7E+04		1.8E+04	2.0 [a]	2.0 [a]	1.8E+04		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	1.6E+04		1.6E+04		1.0E+03 [b]	1.6E+04		0.37
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	1.6E+04		1.6E+04			1.6E+04	0.010	0.70
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	1.6E+04		1.6E+04	3.1		1.6E+04	0.030	6.4
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	2.6E+04		2.6E+04			2.6E+04	0.47	0.52
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	1.7E+04		1.8E+04			1.8E+04	0.25	27
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	6.4E+04		6.5E+04	1.0E+03 [b,c]		6.6E+04	1.0E+03 [b,c]	1.0E+03 [b,c]
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	1.6E+04		1.6E+04			1.6E+04	0.072	74
Nitrosopiperidine N-	100-75-4					8.70E-03	1.6E+04		1.6E+04			1.6E+04		140
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	1.6E+04		1.6E+04			1.6E+04	0.74	1.0E+03 [b]
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				4.0E+06		4.0E+06	1.0E+03 [b]		4.0E+06		
Parathion (ethyl)	56-38-2		0.147				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorobenzene	608-93-5		1.96E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	9.7E+04	97	9.8E+04	100 [a]		9.9E+04	80	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		1.6E+04		1.7E+04	1.0E+03 [b]	1.0E+03 [b]	1.7E+04		
Phenyl mercuric acetate	62-38-4		1.96E-03				1.5E+05		1.5E+05	290		1.5E+05		
Phenylenediamine 1,3-	108-45-2		1.47E-01				1.5E+05		1.5E+05	1.0E+03 [b]		1.5E+05		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				4.5E+09		4.6E+09	1.0E+03 [b,c]		4.7E+09		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	1.6E+04		1.7E+04		1.0E+03 [b]	1.7E+04	6.6	280
Pyrene	129-00-0		7.34E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pyridine	110-86-1		2.45E-02		1.40E+00		1.6E+04		1.6E+04	5.0 [a]	5.0 [a]	1.6E+04		
Safrole	94-59-7			5.36E-04			1.3E+07		1.3E+07			1.4E+07	1.0E+03 [b,c]	

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-3: Landfill Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Selenium	7782-49-2	5.00E-02	1.22E-01					1.0 [a]		1.0 [a]				
Silver	7440-22-4		1.22E-01							5.0 [a]				
Strychnine and salts	57-24-9		7.34E-03				7.7E+05		7.8E+05	1.0E+03 [b,c]		7.8E+05		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		5.4E+04	1.0E+03 [b, c]	5.5E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	5.5E+04		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b, c]		1.0E+30	1.0E+03 [b, c]	1.0E+03 [b, c]
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	1.0E+30	0.64 [e]	1.0E+30	1.0E+03 [b]		1.0E+30	0.64 [d]	0.64 [d]
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	1.0E+30	0.64 [e]	1.0E+30	1.0E+03 [b]	0.64 [e]	1.0E+30	0.64 [d]	0.64 [d]
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	2.5E+04	0.70 [a]	2.5E+04	0.70 [a]	0.70 [a]	2.5E+04	0.70 [a]	0.70 [a]
Tetrachlorophenol 2,3,4,6-	58-90-2		0.734				1.1E+07		1.1E+07	1.0E+03 [b,c]		1.2E+07		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					1.0E+03 [b]		1.0E+03 [b]				
Thiram [Thiuram]	137-26-8		1.22E-01				3.0E+09		3.2E+09	1.0E+03 [b,c]		3.5E+09		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		2.9E+04	1.0E+03 [b, c]	2.9E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	2.9E+04		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	1.6E+04		1.6E+04			1.6E+04	0.50	1.0E+03 [b]
Toluidine o-	95-53-4			4.02E-04		3.60E-02	1.7E+04		1.7E+04			1.7E+04	6.9	620
Toluidine p-	106-49-0			5.08E-04			2.0E+05		2.1E+05			2.1E+05	100	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	1.0E+30	0.50 [a]	1.0E+30			1.0E+30	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	3.1E+05	1.0E+03 [b]	3.1E+05	1.0E+03 [b]		3.2E+05	1.0E+03 [b]	1.0E+03 [b]
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		7.4E+04		7.4E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	7.5E+04		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		6.8E+06	1.0E+03 [b, c]	6.8E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	6.9E+06		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		1.0E+30	0.96 [d]	1.0E+30	0.96 [d]	0.96 [d]	1.0E+30	0.96 [e]	0.96 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	0.0979	1.69E-03		1.10E-03	1.4E+07	0.96 [d]	1.4E+07	0.96 [d]	0.96 [e]	1.4E+07	0.96 [d]	0.96 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	2.3E+04	0.50 [a]	2.3E+04		0.50 [a]	2.3E+04	0.50 [a]	0.50 [a]
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		2.3E+04		2.3E+04	1.0E+03 [b]	1.0E+03 [b]	2.3E+04		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				3.8E+10		4.2E+10	400 [a]		4.2E+10		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	2.7E+04		2.7E+04			2.7E+04	2.0 [a]	2.0 [a]
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				4.3E+05	1.0 [a]	4.4E+05	1.0 [a]		4.4E+05		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				2.5E+05		2.5E+05	1.0E+03 [b,c]		2.5E+05		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	
Triethylamine	121-44-8				1.10E-01		1.8E+04		1.8E+04		1.0E+03 [b]	1.8E+04		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				1.7E+05		1.8E+05	1.0E+03 [b,c]		1.8E+05		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Vanadium	7440-62-2		1.71E-01							1.0E+03 [b]				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		1.6E+04		1.6E+04	1.0E+03 [b]	1.0E+03 [b]	1.6E+04		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	1.6E+04	0.20 [a]	1.6E+04	0.20 [a]	0.20 [a]	1.6E+04	0.20 [a]	0.20 [a]
Xylene m-	108-38-3		4.90E+01		1.30E+00		1.0E+05		1.0E+05	1.0E+03 [b,c]	1.0E+03 [b,c]	1.1E+05		
Xylene o-	95-47-6		4.90E+01		1.40E+00		8.4E+04		8.4E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	8.5E+04		
Xylene p-	106-42-3		4.90E+01		1.30E+00		1.1E+05		1.1E+05	1.0E+03 [b,c]	1.0E+03 [b,c]	1.1E+05		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		9.7E+04	1.0E+03 [b, c]	9.8E+04	1.0E+03 [b,c]	1.0E+03 [b,c]	9.9E+04		
Zinc	7440-66-6		7.34E+00							1.0E+03 [b]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-4: Surface Impoundment No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				2.2		2.2	3.2		2.3		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	1.3		1.3		0.29	1.5		6.2E-02
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		1.3		1.3	3.2	1.0E+03 [b]	1.5		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		1.3		1.3		4.1	1.5		
Acetophenone	98-86-2		2.45E+00				1.3		1.3	3.2		1.5		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	1.3		1.4	6.9E-03		1.7	3.5E-05	8.4E+00
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		1.3		1.3	16	20	1.5		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	1.3		1.4	5.2E-03 [d]	0.051	1.6	2.7E-05 [d]	1.6E-03
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	380		380	0.28 [c]		380	2.1E-03	3.8E-03
Allyl alcohol	107-18-6		1.22E-01				1.3		1.3	0.16		1.5		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	1.3		1.3		1.2	1.5	0.026	3.3E+00
Anthracene	120-12-7		7.34E+00				3.6		3.6	27 [c]		3.8		
Antimony	7440-36-0	6.00E-03	9.79E-03					8.5E-03		0.014				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				0.080		0.013			1.4E-04	
Barium	7440-39-3	2.00E+00	1.71E+00					2.7		2.4				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	36		37			37	2.9E-03	0.66 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	1.3	6.4E-03	1.3		0.25	1.6	2.7E-03	2.5E-03
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	1.3		1.3	0.097		1.5	6.4E-07	4.0
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	110	0.021 [c]	110			110	1.4E-03	0.57 [c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	110		110			110	8.6E-03 [c]	0.067 [c]
Benzyl alcohol	100-51-6		7.34E+00				1.3		1.3	9.7		1.5		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	11 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					0.28		0.53				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	2.1		2.2		1.0E+03 [e]	2.6	2.2E-04	2.8E-03
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	1.3		1.4	1.3		1.6	2.2E-03	9.3E-03
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	7.4E+10	1.0E+03 [b, c]	7.5E+10	1.0E+03 [b,c]	1.0E+03 [b,c]	7.5E+10	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	1.3	0.11	1.4	0.68		1.6	2.6E-03	1.3E-03
Bromomethane	74-83-9		3.43E-02		1.50E-02		190		230	7.7	3.4	230		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	1.3		1.3		0.080	1.6		6.2E-05
Butanol n-	71-36-3		2.45E+00				1.3		1.3	3.2		1.5		
Butyl benzyl phthalate	85-68-7		4.90E+00				4.0		4.1	20 [c]		4.2		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				1.3	8.9E-03	1.3	0.033		1.6		
Cadmium	7440-43-9	5.00E-03	1.22E-02					8.3E-03		0.021				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		1.3		1.4	3.4	2.6	1.6		
Carbon tetrachloride	56-23-5	5.00E-03	0.0171	7.43E-04	0.021	7.60E-04	1.5	7.3E-03	1.5	0.025	0.031	1.7	1.3E-03	1.3E-03
Chlordane	57-74-9	2.00E-03	0.0122	2.76E-04	2.80E-02	1.50E-03	130	0.030 [a]	140	0.030 [a]	0.030 [a]	140	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		1.3		1.3	0.65	0.029	1.6		
Chloroaniline p-	106-47-8		9.79E-02				1.3		1.3	0.13		1.5		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		1.3	0.13	1.4	0.67	0.27	1.6		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	4.4		4.4	2.2		4.7	1.7E-03	5.6
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	1.3	0.10	1.4	0.67		1.6	1.8E-03	1.2E-03
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		1.3		1.3		40	1.5		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		1.3	0.10	1.3	0.33	0.44	1.6		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	1.3		1.3		0.34	1.5	1.1E-02	9.0E-03
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		1.3		1.3	0.16	0.013	1.6		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	9.7E+05		9.8E+05		1.0E+03 [b]	2.2E+06		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					2.6		100				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					0.69		0.55				
Chrysene	218-01-9			8.05E-04		7.30E-03	36		37			37	0.029 [c]	0.27 [c]

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-4: Surface Impoundment No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Cobalt	7440-48-4		4.90E-01							1.2				
Copper	7440-50-8	1.30E+00						5.5						
Cresol m-	108-39-4		1.22E+00		1.20E+03		1.3		1.3	1.6	200 [a]	1.5		
Cresol o-	95-48-7		1.22E+00		8.80E+02		1.3		1.3	1.6	200 [a]	1.5		
Cresol p-	106-44-5		1.22E-01		1.30E+03		1.3		1.3	0.16	200 [a]	1.5		
Cresols	1319-77-3		1.22E+00		1.10E+03		1.3		1.3	1.6	1.0E+03 [b]	1.6		
Cumene	98-82-8		2.45E+00		1.30E+00		1.7		1.7	4.2	2.2	1.9		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		1.3		1.3	5.5E-04	5.1E-04	1.5		
Cyclohexanone	108-94-1		1.22E+02				1.3		1.3	160		1.5		
DDD	72-54-8			4.02E-04			4.4E+08		4.4E+08			4.4E+08	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			3.2E+04		3.2E+04			3.2E+04	9.0 [c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	10 [d]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			38		38			42	0.066	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	4.8E+03		4.9E+03			4.9E+03	0.064 [c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	1.4	2.8E-04	1.5		4.2E-03	1.7	1.2E-04	0.14
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		1.5	0.88	1.5	3.3	1.1	1.7		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	1.5	0.11	1.5		4.4	1.7	6.7E-03	2.2E-03
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	1.6		1.6			1.8	3.9E-04	8.9 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		1.3		1.3	6.6	0.78	1.6		
Dichloroethane 1,1-	75-34-3		2.45		1.6	7.40E-03	1.3	5.6E-03 [e]	1.4	0.22 [d]	0.45 [d]	1.6	4.6E-04 [e]	8.5E-03 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	1.3	4.0E-03 [d]	1.4	0.15 [e]	0.32 [d]	1.6	3.2E-04 [d]	1.0E-03
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				1.3	0.088	1.3	0.33		1.5		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				1.3	0.13	1.3	0.65		1.5		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	1.3	8.9E-03	1.3	0.29	0.28	1.6	2.5E-04	3.4E-04
Dichlorophenol 2,4-	120-83-2		7.34E-02				1.3		1.4	0.10		1.6		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				1.3	0.088	1.3	0.3		1.5		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		1.5	7.5E-03	1.6	3.4	0.022	1.9	2.6E-03	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	1.3		1.3	1.0	0.081	1.5	1.5E-03	4.4E-03
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	5.3E+06		5.9E+06	1.0E+03 [b]	1.0E+03 [b]	1.3E+07	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	5.3E+06		5.9E+06	1.0E+03 [b]	1.0E+03 [b]	1.3E+07	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	3.3E+04		3.3E+04	40 [c]		3.3E+04	0.20 [c]	3.3 [c]
Diethyl phthalate	84-66-2		1.96E+01				1.5		1.5	30		1.8		
Diethylstilbestrol	56-53-1			2.05E-08			3.1		3.1			3.2	6.6E-08	
Dimethoate	60-51-5		4.90E-03				10		11	0.054	1.0E+03 [e]	12		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			1.3		1.3			1.5	0.010	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		1.3		1.3	3.2	940	1.5		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	3.1E+04		3.1E+04			3.1E+04		94 [c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			1.3		1.4			1.6	1.6E-05	
Dimethylphenol 2,4-	105-67-9		4.90E-01				1.3		1.3	0.66		1.6		
Di-n-butyl phthalate	84-74-2		2.45E+00				5.0		5.1	12 [c]		5.2		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				1.3		1.3	3.2E-03		1.5		
Dinitrophenol 2,4-	51-28-5		4.90E-02				1.3		1.3	0.065		1.5		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	1.3		1.3	0.065		1.5	2.2E-04	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			1.3		1.3	0.032		1.5	2.2E-04	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	1.3		1.3		1.0E+03 [b]	1.5	0.013	0.27
Diphenylamine	122-39-4		6.12E-01				1.6		1.6	1.0		1.8		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	1.4		1.4			1.6	1.9E-04	0.032
Disulfoton	298-04-4		9.79E-04				150		160	0.15		200		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-4: Surface Impoundment No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				1.8		1.9	0.27		2.1		
Endrin	72-20-8	2.00E-03	7.34E-03				150	0.020 [a]	150	0.020 [a]		150		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	7.6E+04		8.3E+04	1.0E+03 [b]	1.0E+03 [b]	8.8E+04	860	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		1.3		1.3		0.32	1.5		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		1.3		1.3	13	1.0E+03 [b]	1.5		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		1.3		1.3	9.7	400	1.5		
Ethyl acetate	141-78-6		2.20E+01				2.1		2.2	49		2.6		
Ethyl ether	60-29-7		4.9				1.3		1.3	6.5		1.5		
Ethyl methacrylate	97-63-2		2.20E+00				1.6		1.7	3.8		2.0		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	1.4	1.0	1.5	3.6	4.82	1.6		0.018
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	3.5	1.7E-04	3.8		3.7E-03	4.3	4.9E-06	3.6E-04
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		1.3		1.3	65	1.0E+03 [b]	1.5		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	7.3E+03		8.3E+03		1.0E+03 [b]	8.6E+03	0.81	4.5
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	1.3		1.3	2.6E-03		1.5	1.3E-03	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				7.7		7.7	7.5 [c]		7.8		
Fluoride	16984-48-8	4.00E+00	2.90E+00					4.9		3.8				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.5	1.3		1.3	6.5	67	1.5		2.3
Formic acid	64-18-6		4.90E+01				1.3		1.3	65		1.5		
Furfural	98-01-1		7.34E-02		2.20E+01		1.3		1.3	0.097	29	1.5		
HCH beta-	319-85-7			5.36E-05		1.70E-02	1.7		1.7			1.9	1.0E-04	0.0
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	220	0.044	230	0.4 [a,d]	0.4 [a,e]	290	0.021	0.4 [a]
HCH alpha-	319-84-6		0.196	1.53E-05		3.60E-04	280	0.29 [e]	280	0.64 [d]	3.5 [e]	350	5.3E-03	0.13
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	3.3E+03	0.66 [c]	3.3E+03	1.1 [c]		3.4E+03	0.036	9.6E-01 [c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	5.6		5.6	0.041		5.7	7.1E-03	3.5E-03
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	43	0.043 [c]	43	0.13 [a,c]		43	2.6E-03	1.5E-03
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	4.9E+08		4.9E+08			5.0E+08	3.1 [c]	71 [c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	1.8E+03		1.8E+03			1.8E+03	1.1E-05 [c]	2.6E-04 [c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	1.9		1.9	0.047		2.2	0.015	7.1E-03
Hexachlorophene	70-30-4		7.34E-03				17		17	0.13		17		
Hexane n-	110-54-3		2.69E+02		6.60E-01		1.4		1.4	390 [c]	0.95	1.6		
Hydrogen Sulfide	7783-06-4		7.34E-02				1.3		1.3	0.097		1.5		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	550		550			550	0.044 [c]	2.1E+01 [c]
Isobutyl alcohol	78-83-1		7.34E+00				1.3		1.3	9.7		1.5		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		1.3		1.3	6.5	710	1.6	0.16	
Kepone	143-50-0		1.22E-02				3.4		3.4	0.041		3.5		
Lead	7439-92-1	1.50E-02						0.078						
Manganese	7439-96-5		1.15E+00							1.6				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			2.5E-03		3.3E-03	9.4E-04			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		1.3		1.4	3.3E-03	8.8E-03	1.6		
Methanol	67-56-1		1.22E+01		1.54E+03		1.3		1.3	16	1.0E+03 [b]	1.5		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.1E+20	10 [a, c]	1.8E+20	1.0E+01 [a,c]		1.8E+20		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		1.3		1.3	0.065	670	1.5		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		1.3		1.3	0.032	580	1.5		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		1.3		1.3	19	44	1.5		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		1.3		1.3	2.6	1.6	1.5		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		1.7		1.8	50 [d]	9.8	2.1		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-4: Surface Impoundment No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methyl parathion	298-00-0		6.12E-03				68		75	0.46	1.0E+03 [e]	83		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		1.3		1.3		22	1.5		
Methylcholanthrene 3-	56-49-5					1.20E-03	4.9E+08		4.9E+08			5.0E+08		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				1.3		1.3	0.32		1.5		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	1.3	6.3E-03	1.3	2.0	13	1.5	0.020	0.043
Molybdenum	7439-98-7		1.22E-01							0.16				
Naphthalene	91-20-3		4.90E-01		1.90E-02		1.5		1.5	0.74	0.029	1.7		
Nickel	7440-02-0		4.90E-01							0.77				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		1.3		1.3	0.016	0.20	1.5		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	1.3		1.3		0.44	1.5		3.5E-05
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	1.3		1.3			1.5	9.8E-07	6.5E-05
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	1.3		1.3	2.6E-04		1.5	2.9E-06	6.1E-04
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	1.3		1.3			1.6	2.8E-05	3.1E-05
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	1.3		1.3			1.5	2.1E-05	2.3E-03
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	1.4		1.4	0.69		1.6	0.032	0.84
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	1.3		1.3			1.5	6.7E-06	6.8E-03
Nitrosopiperidine N-	100-75-4					8.70E-03	1.3		1.3			1.5		0.013
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	1.3		1.3			1.5	7.0E-05	1.4
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				1.3		1.4	0.066		1.6		
Parathion (ethyl)	56-38-2		0.147				930		960	140 [c]		1.2E+03		
Pentachlorobenzene	608-93-5		1.96E-02				41		41	0.80		41		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	15		15			15	1.8E-08	9.2E-07
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	680		680			680	4.3E-07	4.1E-05
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			6.8		6.8	0.50		7.0	2.6E-03	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	1.5	1.5E-03	1.5	1.1		1.7	1.3E-03	90
Phenol	108-95-2		1.47E+01		9.00E+02		1.3		1.3	19	1.0E+03 [b]	1.5		
Phenyl mercuric acetate	62-38-4		1.96E-03				1.3		1.3	2.6E-03		1.5		
Phenylenediamine 1,3-	108-45-2		1.47E-01				1.3		1.3	0.19		1.5		
Phorate	298-02-2		4.90E-03				6.7E+19		1.2E+20	1.0E+03 [b,c]		1.6E+20		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	390	0.20 [c]	390	0.19 [c]		390	0.095 [c]	0.055
Pronamide	23950-58-5		1.84E+00				1.4		1.4	2.6		1.6		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	1.3		1.3		0.65	1.5	6.1E-04	0.026
Pyrene	129-00-0		7.34E-01				14		14	11 [c]		14		
Pyridine	110-86-1		2.45E-02		1.40E+00		1.3		1.3	0.032	1.8	1.5		
Safrole	94-59-7			5.36E-04			1.3		1.3			1.6	8.4E-04	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.063		0.16				
Silver	7440-22-4		1.22E-01							0.17				
Strychnine and salts	57-24-9		7.34E-03				1.3		1.3	0.010		1.6		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		1.4	0.14	1.4	6.9	5.1	1.6		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				4.1		4.1	0.030		4.3		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	2.0E+04		2.0E+04			2.0E+04	1.3E-04	2.0E-03 [c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	2.7E+02	8.1E-06 [c]	2.7E+02	6.6E-06		2.7E+02	1.7E-07	6.0E-07
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	1.5	8.2E-03 [e]	1.6	1.1		1.8	6.7E-03	3.4E-03
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	3.0	8.2E-03 [e]	3.2	4.7	0.64 [e]	3.8	1.8E-03	1.9E-03
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	1.3	6.4E-03	1.3	0.33	0.70 [a]	1.6	2.9E-03	0.033
Tetrachlorophenol 2,3,4,6-	58-90-2		0.734				1.3		1.3	0.98		1.6		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					2.5E-03		2.6E-03				
Thiram [Thiuram]	137-26-8		1.22E-01				1.4		1.4	0.17		1.6		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-4: Surface Impoundment No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		1.3	1.3	1.4	6.6	1.8	1.6		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	1.3		1.3			1.5	4.6E-05	11
Toluidine o-	95-53-4			4.02E-04		3.60E-02	1.3		1.3			1.5	6.1E-04	0.055
Toluidine p-	106-49-0			5.08E-04			1.3		1.3			1.5	7.7E-04	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	42	0.13	42			44	3.9E-03	0.16
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	1.3	0.10	1.4	0.66		1.6	0.019	0.030
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		1.4		1.5	1.0E+03 [b,c]	140	1.6		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		2.6	0.18	2.6	0.64	2.2	2.8		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		5.9	0.012 [d]	6.4	0.40 [d]	0.38 [d]	7.4	3.4E-04 [e]	4.7E-04 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	0.0979	1.69E-03		1.10E-03	1.3	6.7E-03	1.4	0.14	0.38 [e]	1.6	3.4E-04 [d]	4.7E-04 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	1.3	6.4E-03	1.3		0.50 [a]	1.6	0.014	0.011
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		1.3		1.3	9.8	2.8	1.6		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				1.4		1.4	3.5		1.6		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	1.3		1.3			1.6	0.014	0.44
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				1.3	0.063	1.3	0.26		1.5		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				1.3		1.3	0.32		1.5		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		1.4		1.4	0.21	0.048	1.7	2.3E-05	
Triethylamine	121-44-8				1.10E-01		1.3		1.3		0.15	1.5		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				1.3		1.3	1.0		1.5		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			3.5		3.5			4.2	4.1E-05	
Vanadium	7440-62-2		1.71E-01							2.6				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		1.3		1.3	32	1.6	1.5		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	1.3	2.5E-03	1.3	0.10	0.20 [a]	1.5	2.0E-04	3.8E-03
Xylene m-	108-38-3		4.90E+01		1.30E+00		1.5		1.5	74	2.0	1.7		
Xylene o-	95-47-6		4.90E+01		1.40E+00		1.4		1.5	72	2.1	1.7		
Xylene p-	106-42-3		4.90E+01		1.30E+00		1.5		1.5	74	2.0	1.7		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		1.5	15	1.5	73	2.1	1.7		
Zinc	7440-66-6		7.34E+00							13				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-5: Surface Impoundment Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				17		17	25 [c]		17		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	3.9		4.0		0.87	4.5		0.18
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		3.9		4.0	9.7	1.0E+03 [b]	4.5		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		4.0		4.0		12	4.5		
Acetophenone	98-86-2		2.45E+00				3.9		4.0	9.7		4.5		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	4.8		4.8	0.024		5.6	1.2E-04	29
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		3.9		4.0	48	59	4.5		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	4.1		4.2	0.018 [d]	0.16	4.8	9.0E-05 [d]	4.8E-03
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	3.7E+08		3.7E+08	1.0E+03 [b,c]		3.7E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Allyl alcohol	107-18-6		1.22E-01				3.9		4.0	0.48		4.5		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	3.9		4.0		3.7	4.5	7.6E-02	9.9
Anthracene	120-12-7		7.34E+00				42.4		43	310 [c]		43		
Antimony	7440-36-0	6.00E-03	9.79E-03					0.026		0.047				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				0.26		0.048			1.1E-03	
Barium	7440-39-3	2.00E+00	1.71E+00					7.3		7.0				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	910		910			910	0.073 [c]	16 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	4.1	0.020	4.1		0.50 [a]	4.7	8.2E-03	7.5E-03
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	3.9		4.0	0.29		4.5	1.9E-06	12
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	2.6E+04	5.2 [c]	2.7E+04			2.7E+04	0.35 [c]	140 [c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	2.6E+04		2.6E+04			2.6E+04	2.1 [c]	17 [c]
Benzyl alcohol	100-51-6		7.34E+00				3.9		4.0	29		4.5		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	34 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					4.5		8.7				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	17		17		1.0E+03 [e]	21	1.9E-03	0.023
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	4.5		4.5	4.4		5.0	6.9E-03	0.030
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	4.6	0.37	4.7	2.3		5.3	8.2E-03	4.2E-03
Bromomethane	74-83-9		3.43E-02		1.50E-02		1.5E+08		1.5E+08	140 [d]	1.0E+03 [b]	2.6E+08		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	4.2		4.3		0.26	4.8		1.9E-04
Butanol n-	71-36-3		2.45E+00				3.9		4.0	9.7		4.5		
Butyl benzyl phthalate	85-68-7		4.90E+00				55		55	270 [c]		55		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				4.2	0.029	4.2	0.10		4.7		
Cadmium	7440-43-9	5.00E-03	1.22E-02					0.029		0.069				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		4.5		4.5	11	8.5	5.1		
Carbon tetrachloride	56-23-5	5.00E-03	0.0171	7.43E-04	0.021	7.60E-04	6.0	0.030	6.1	0.10	0.13	6.8	5.0E-03	5.2E-03
Chlordane	57-74-9	2.00E-03	0.0122	2.76E-04	2.80E-02	1.50E-03	1.1E+05	0.030 [a,]	1.1E+05	0.030 [a]	0.030 [a]	1.1E+05	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		4.1		4.1	2.0	0.090	4.6		
Chloroaniline p-	106-47-8		9.79E-02				3.9		4.0	0.39		4.5		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		4.8	0.48	4.9	2.4	1.0	5.3		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	87		87	43 [c]		87	3.1E-02	100 [c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	4.4	0.35	4.5	2.2		5.1	5.8E-03	3.8E-03
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		3.9		4.0		120	4.5		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		4.1	0.32	4.1	1.0	1.3	4.7		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	3.9		4.0		1.0	4.5	3.3E-02	0.027
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		4.1		4.1	0.50	0.040	4.7		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					57		450				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-5: Surface Impoundment Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chrysene	218-01-9			8.05E-04		7.30E-03	910		910			910	0.73 [c]	6.6 [c]
Cobalt	7440-48-4		4.90E-01							8.0				
Copper	7440-50-8	1.30E+00						61						
Cresol m-	108-39-4		1.22E+00		1.20E+03		4.0		4.1	5.0	200 [a]	4.6		
Cresol o-	95-48-7		1.22E+00		8.80E+02		4.1		4.1	5.0	200 [a]	4.6		
Cresol p-	106-44-5		1.22E-01		1.30E+03		4.0		4.1	0.50	200 [a]	4.6		
Cresols	1319-77-3		1.22E+00		1.10E+03		4.3		4.3	5.2	1.0E+03 [b]	4.8		
Cumene	98-82-8		2.45E+00		1.30E+00		9.8		9.8	24	13	10		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		3.9		4.0	1.6E-03	1.5E-03	4.5		
Cyclohexanone	108-94-1		1.22E+02				4.1		4.1	500		4.6		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			1.9E+05		1.9E+05			1.9E+05	310 [c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	5.5	1.1E-03	5.5		0.016	6.4	4.4E-04	0.50
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		6.7	4.0	6.8	15	5.2	7.2		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	6.6	0.49	6.6		7.5 [a]	7.0	2.8E-02	9.1E-03
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	8.7		8.7			9.1	2.0E-03	45 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		4.3		4.3	21	2.5	4.9		
Dichloroethane 1,1-	75-34-3		2.45		1.6	7.40E-03	4.5	0.018 [e]	4.6	0.45 [d]	0.45 [d]	5.3	1.4E-03 [e]	0.025 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	4.4	0.012 [d]	4.5	0.32 [e]	0.32 [d]	5.2	9.6E-04 [d]	3.3E-03
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				4.0	0.28	4.1	1.0		4.6		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				3.9	0.39	4.0	1.9		4.5		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	4.1	0.028	4.1	0.70 [a]	0.70 [a]	4.7	7.5E-04	1.0E-03
Dichlorophenol 2,4-	120-83-2		7.34E-02				4.6		4.7	0.34		5.1		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				3.9	0.27	4.0	1.0		4.5		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		6.5	0.033	6.6	14	0.092	7.6	0.011	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	3.9		4.0	2.9	0.24	4.5	4.3E-03	0.013
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				6.1		6.2	120		7.0		
Diethylstilbestrol	56-53-1			2.05E-08			33		33			34	6.9E-07	
Dimethoate	60-51-5		4.90E-03				2.8E+03		2.9E+03	0.98 [d]	1.0E+03 [e]	3.7E+03		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			3.9		4.0			4.5	3.1E-02	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		3.9		4.0	9.7	1.0E+03 [b]	4.5		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			4.7		4.8			5.2	5.5E-05	
Dimethylphenol 2,4-	105-67-9		4.90E-01				4.4		4.4	2.2		4.9		
Di-n-butyl phthalate	84-74-2		2.45E+00				75		75	180 [c]		75		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				3.9		4.0	9.7E-03		4.5		
Dinitrophenol 2,4-	51-28-5		4.90E-02				3.9		4.0	0.19		4.5		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	3.9		4.0	0.13 [a]		4.5	6.4E-04	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			3.9		4.0	0.10		4.5	6.4E-04	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	3.9		4.0		1.0E+03 [b]	4.5	4.0E-02	0.81
Diphenylamine	122-39-4		6.12E-01				8.4		8.5	5.2		8.8		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-5: Surface Impoundment Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	5.5		5.5			5.9	7.2E-04	0.12
Disulfoton	298-04-4		9.79E-04				4.0E+07		4.0E+07	1.0E+03 [b,c]		4.6E+07		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				12		12	1.8 [c]		12		
Endrin	72-20-8	2.00E-03	7.34E-03				6.5E+06	0.020 [a]	6.6E+06	0.020 [a]		6.6E+06		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		3.9		4.0		1.0	4.5		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		3.9		4.0	39	1.0E+03 [b]	4.5		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		3.9		4.0	29	1.0E+03 [b]	4.5		
Ethyl acetate	141-78-6		2.20E+01				18		18	400		22		
Ethyl ether	60-29-7		4.9				3.9		4.0	19		4.5		
Ethyl methacrylate	97-63-2		2.20E+00				7.7		7.9	17		9.1		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	6.3	4.4	6.4	16	21	6.8		0.074
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	79	4.0E-03	82		0.080	100	1.1E-04	8.4E-03
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		3.9		4.0	190	1.0E+03 [b]	4.5		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	3.9		4.0	7.8E-03		4.5	4.0E-03	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				110		110	110 [c]		110		
Fluoride	16984-48-8	4.00E+00	2.90E+00					14		11				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.5	3.9		4.0	19	200	4.5		6.8
Formic acid	64-18-6		4.90E+01				3.9		4.0	190		4.5		
Furfural	98-01-1		7.34E-02		2.20E+01		3.9		4.0	0.29	87	4.5		
HCH beta-	319-85-7			5.36E-05		1.70E-02	10		10			11	5.6E-04	0.18
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	5.8E+07	0.4 [a,d]	5.8E+07	0.4 [a,d]	0.4 [a,e]	6.4E+07	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		0.196	1.53E-05		3.60E-04	1.2E+08	2.9 [e]	1.2E+08	6.4 [c,d]	35 [c,e]	1.3E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	4.2E+15	1.0E+03 [b, c]	4.2E+15	1.0E+03 [b,c]		4.2E+15	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	76		76	0.50 [a]		76	0.095	0.047
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	1.2E+03	0.13 [a, c]	1.2E+03	0.13 [a,c]		1.2E+03	0.073 [c]	0.043 [c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	5.2E+14		5.2E+14			5.2E+14	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	14		14	0.34		14	0.097	0.046
Hexachlorophene	70-30-4		7.34E-03				270		270	2.0		270		
Hexane n-	110-54-3		2.69E+02		6.60E-01		6.1		6.1	1.0E+03 [b,c]	4.0	6.5		
Hydrogen Sulfide	7783-06-4		7.34E-02				3.9		4.0	0.29		4.5		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	2.3E+10		2.3E+10			2.3E+10	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				3.9		4.0	29		4.5		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		4.1		4.2	20	1.0E+03 [b]	4.7	0.477	
Kepone	143-50-0		1.22E-02				38		38	0.46		38		
Lead	7439-92-1	1.50E-02						0.78						
Manganese	7439-96-5		1.15E+00							4.9				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			6.9E-03		9.4E-03	2.7E-03			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		4.1		4.2	0.010	0.027	4.8		
Methanol	67-56-1		1.22E+01		1.54E+03		3.9		4.0	48	1.0E+03 [b]	4.5		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a, c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		3.9		4.0	0.19	1.0E+03 [b]	4.5		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		3.9		4.0	0.10	1.0E+03 [b]	4.5		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-5: Surface Impoundment Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		3.9		4.0	58	130	4.5		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		3.9		4.0	7.8	4.8	4.5		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		9.3		9.4	150 [d]	50	11		
Methyl parathion	298-00-0		6.12E-03				7.7E+06		7.9E+06	2.3 [d]	1.0E+03 [e]	9.0E+06		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		3.9		4.0		67	4.5		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				3.9		4.0	1.0		4.5		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	4.0	0.020	4.1	6.0	41	4.6	0.059	0.13
Molybdenum	7439-98-7		1.22E-01							0.44				
Naphthalene	91-20-3		4.90E-01		1.90E-02		7.0		7.0	3.4	0.13	7.3		
Nickel	7440-02-0		4.90E-01							2.5				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		3.9		4.0	0.048	0.59	4.5		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	3.9		4.0		1.3	4.5		1.0E-04
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	3.9		4.0			4.5	2.9E-06	1.9E-04
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	3.9		4.0	7.8E-04		4.5	8.5E-06	1.8E-03
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	4.2		4.3			4.8	8.5E-05	9.5E-05
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	3.9		4.0			4.5	6.2E-05	6.8E-03
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	5.6		5.6	2.7		6.0	0.12	3.1
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	3.9		4.0			4.5	2.0E-05	0.020
Nitrosopiperidine N-	100-75-4					8.70E-03	3.9		4.0			4.5		0.039
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	3.9		4.0			4.5	2.1E-04	4.1
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				4.2		4.2	0.21		4.8		
Parathion (ethyl)	56-38-2		0.147				1.7E+14		1.7E+14	1.0E+03 [b,c]		1.8E+14		
Pentachlorobenzene	608-93-5		1.96E-02				1.1E+03		1.1E+03	21 [c]		1.1E+03		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	230		230			230	2.9E-07	1.5E-05
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	3.9E+11		3.9E+11			3.9E+11	240 [c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			95		96	7.0 [c]		96	0.036	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	6.6	6.6E-03	6.7	4.9		7.0	5.7E-03	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		3.9		4.0	58	1.0E+03 [b]	4.5		
Phenyl mercuric acetate	62-38-4		1.96E-03				3.9		4.0	7.8E-03		4.5		
Phenylenediamine 1,3-	108-45-2		1.47E-01				3.9		4.0	0.58		4.5		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	5.5E+08	1.0E+03 [b, c]	5.5E+08	1.0E+03 [b,c]		5.6E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				5.1		5.1	9.4		5.6		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	3.9		4.0		1.9	4.5	1.8E-03	0.077
Pyrene	129-00-0		7.34E-01				220		220	160 [c]		220		
Pyridine	110-86-1		2.45E-02		1.40E+00		3.9		4.0	0.10	5.0 [a]	4.5		
Safrole	94-59-7			5.36E-04			4.4		4.4			5.0	2.7E-03	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.17		0.43				
Silver	7440-22-4		1.22E-01							0.61				
Strychnine and salts	57-24-9		7.34E-03				4.1		4.1	0.030		4.7		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		5.6	0.56	5.6	27	20	6.0		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				50		51	0.37		51		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	2.9E+07	0.86 [c]	2.9E+07	0.71 [c]		2.9E+07	0.019 [c]	0.064 [c]
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	7.3	0.027 [e]	7.3	5.4		8.0	0.030	0.015
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	46	0.027 [e]	46	68	0.64 [e]	54	0.026	0.027
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	4.3	0.022	4.4	0.70 [a]	0.70 [a]	4.9	9.1E-03	0.10

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-5: Surface Impoundment Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Tetrachlorophenol 2,3,4,6-	58-90-2		0.734				4.4		4.4	3.3		4.9		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					6.6E-03		7.4E-03				
Thiram [Thiuram]	137-26-8		1.22E-01				5.5		5.5	0.67		5.9		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		4.6	4.6	4.6	23	6.0	5.1		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	3.9		4.0			4.5	1.4E-04	34
Toluidine o-	95-53-4			4.02E-04		3.60E-02	3.9		4.0			4.5	1.8E-03	0.16
Toluidine p-	106-49-0			5.08E-04			3.9		4.0			4.5	2.3E-03	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	1.7E+05	0.50 [a]	1.7E+05			1.7E+05	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	4.4	0.35	4.4	2.1		4.9	0.060	0.094
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		6.2		6.2	1.0E+03 [b,c]	590 [c]	6.6		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		26	1.8	26	6.4	22	26		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		390	0.039 [d]	400	0.96 [d]	0.96 [d]	490	1.0E-03 [e]	1.4E-03 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	0.0979	1.69E-03		1.10E-03	4.6	0.023	4.6	0.45	0.96 [e]	5.3	1.0E-03 [d]	1.4E-03 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	4.2	0.021	4.3		0.50 [a]	4.8	0.042	0.033
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		4.3		4.3	32	9.0	4.8		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				5.9		5.9	14		6.3		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	4.4		4.4			4.9	0.043	1.4
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				4.0	0.20	4.1	0.80		4.6		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				3.9		4.0	1.0		4.5		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		5.0		5.1	0.75	0.17	5.9	8.1E-05	
Triethylamine	121-44-8				1.10E-01		3.9		4.0		0.44	4.5		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				3.9		4.0	2.9		4.5		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			83		84			89	8.8E-04	
Vanadium	7440-62-2		1.71E-01							41				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		3.9		4.0	97	4.8	4.5		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	3.9	7.8E-03	4.0	0.20 [a]	0.20 [a]	4.5	6.0E-04	0.011
Xylene m-	108-38-3		4.90E+01		1.30E+00		6.8		6.8	340 [c]	8.9	7.2		
Xylene o-	95-47-6		4.90E+01		1.40E+00		6.4		6.5	320 [c]	9.0	6.9		
Xylene p-	106-42-3		4.90E+01		1.30E+00		7.1		7.1	350 [c]	9.2	7.4		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		6.7	67	6.8	330 [c]	9.5	7.2		
Zinc	7440-66-6		7.34E+00							68				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-6: Surface Impoundment Composite Liners LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner								
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)			
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	2.7E+05		2.7E+05		1.0E+03 [b]	2.9E+05		1.0E+03 [b]
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		2.8E+05		2.8E+05		1.0E+03 [b]	3.0E+05		
Acetophenone	98-86-2		2.45E+00				2.4E+05		2.4E+05	1.0E+03 [b]		2.4E+05		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	2.9E+08		2.9E+08	1.0E+03 [b]		3.2E+08	1.0E+03 [b]	1.0E+03 [b]
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	9.2E+05		9.3E+05	740 [d]	740 [d]	9.7E+05	170	750 [d]
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Allyl alcohol	107-18-6		1.22E-01				2.6E+05		2.6E+05	1.0E+03 [b]		2.6E+05		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	2.7E+05		2.8E+05		1.0E+03 [b]	2.8E+05	1.0E+03 [b]	1.0E+03 [b]
Anthracene	120-12-7		7.34E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Antimony	7440-36-0	6.00E-03	9.79E-03					1.0E+03 [b]		1.0E+03 [b]				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				5.0 [a]		5.0 [a]			5.0 [a]	
Barium	7440-39-3	2.00E+00	1.71E+00					100 [a]		100 [a]				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	3.4E+05	0.50 [a]	3.5E+05		0.50 [a]	3.6E+05	0.501 [a]	0.50 [a]
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	2.9E+05		2.9E+05	1.0E+03 [b,c]		3.0E+05	0.13	1.0E+03 [b,c]
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	1.0E+30	1.0E+03 [b, c]	1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzyl alcohol	100-51-6		7.34E+00				2.3E+05		2.3E+05	1.0E+03 [b]		2.3E+05		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	1.0E+03 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					1.0E+03 [b]		1.0E+03 [b]				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	1.0E+30		1.0E+30		1.0E+03 [e]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	5.4E+05		5.5E+05	1.0E+03 [b]		5.6E+05	780	1.0E+03 [b]
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	2.5E+06	1.0E+03 [b]	2.6E+06	1.0E+03 [b]		2.6E+06	1.0E+03 [b]	1.0E+03 [b]
Bromomethane	74-83-9		3.43E-02		1.50E-02		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	3.9E+05		3.94E+05		1.0E+03 [b,c]	4.1E+05		16.4
Butanol n-	71-36-3		2.45E+00				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		
Butyl benzyl phthalate	85-68-7		4.90E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				3.8E+05	1.0E+03 [b, c]	3.8E+05	1.0E+03 [b,c]		3.8E+05		
Cadmium	7440-43-9	5.00E-03	1.22E-02					1.0 [a]		1.0 [a]				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		1.7E+06		1.7E+06	1.0E+03 [b]	1.0E+03 [b]	1.8E+06		
Carbon tetrachloride	56-23-5	5.00E-03	0.0171	7.43E-04	0.021	7.60E-04	9.1E+11	0.50 [a]	9.4E+11	0.50 [a]	0.50 [a]	9.4E+11	0.50 [a]	0.50 [a]
Chlordane	57-74-9	2.00E-03	0.0122	2.76E-04	2.80E-02	1.50E-03	1.0E+30	0.030 [a]	1.0E+30	0.030 [a]	0.030 [a]	1.0E+30	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		3.4E+05		3.5E+05	1.0E+03 [b]	1.0E+03 [b]	3.6E+05		
Chloroaniline p-	106-47-8		9.79E-02				2.8E+05		2.8E+05	1.0E+03 [b]		2.8E+05		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		6.6E+05	100 [a]	6.7E+05	100 [a]	100 [a]	6.9E+05		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	1.5E+06	1.0E+03 [b]	1.5E+06	1.0E+03 [b]		1.5E+06	1.0E+03 [b]	1.0E+03 [b]
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		2.7E+05		2.8E+05		1.0E+03 [b]	2.9E+05		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		5.5E+05	6.0 [a]	5.5E+05	6.0 [a]	6.0 [a]	5.7E+05		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	2.8E+05		2.9E+05		1.0E+03 [b]	3.0E+05	1.0E+03 [b]	1.0E+03 [b]
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		3.5E+05		3.5E+05	1.0E+03 [b]	1.0E+03 [b]	3.7E+05		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-6: Surface Impoundment Composite Liners LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					1.0E+03 [b]		1.0E+03 [b]				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				
Chrysene	218-01-9			8.05E-04		7.30E-03	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Cobalt	7440-48-4		4.90E-01							1.0E+03 [b]				
Copper	7440-50-8	1.30E+00						1.0E+03 [b]						
Cresol m-	108-39-4		1.22E+00		1.20E+03		3.3E+05		3.3E+05	200 [a]	200 [a]	3.6E+05		
Cresol o-	95-48-7		1.22E+00		8.80E+02		3.4E+05		3.4E+05	200 [a]	200 [a]	3.6E+05		
Cresol p-	106-44-5		1.22E-01		1.30E+03		3.3E+05		3.3E+05	200 [a]	200 [a]	3.6E+05		
Cresols	1319-77-3		1.22E+00		1.10E+03		4.1E+05		4.1E+05	1.0E+03 [b]	1.0E+03 [b]	4.2E+05		
Cumene	98-82-8		2.45E+00		1.30E+00		4.0E+06		4.0E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	4.1E+06		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		2.8E+05		2.8E+05	120	110.37	3.0E+05		
Cyclohexanone	108-94-1		1.22E+02				3.3E+05		3.3E+05	1.0E+03 [b]		3.3E+05		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	2.2E+08	1.0E+03 [b]	2.2E+08		1.0E+03 [b]	2.3E+08	1.0E+03 [b]	1.0E+03 [b]
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		1.7E+06	1.0E+03 [b, c]	1.7E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.7E+06		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	1.6E+06	7.5 [a]	1.6E+06		7.5 [a]	1.6E+06	7.5 [a]	7.5 [a]
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	3.6E+06		3.7E+06			3.8E+06	810 [c]	1.0E+03 [b,c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		4.3E+05		4.4E+05	1.0E+03 [b,c]	1.0E+03 [b,c]	4.4E+05		
Dichloroethane 1,1-	75-34-3		2.45		1.6	7.40E-03	6.4E+07	0.45 [e]	6.4E+07	0.45 [d]	0.45 [d]	6.7E+07	0.45 [e]	0.45 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	3.8E+07	0.32 [d]	3.9E+07	0.32 [e]	0.32 [d]	4.0E+07	0.32 [d]	0.32 [d]
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				3.0E+05	1.0E+03 [b]	3.0E+05	1.0E+03 [b]		3.0E+05		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				2.8E+05	1.0E+03 [b]	2.8E+05	1.0E+03 [b]		2.8E+05		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	3.4E+05	0.70 [a]	3.4E+05	0.70 [a]	0.70 [a]	3.6E+05	0.70 [a]	0.70 [a]
Dichlorophenol 2,4-	120-83-2		7.34E-02				8.7E+05		8.7E+05	1.0E+03 [b]		8.7E+05		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				2.3E+05	10 [a]	2.3E+05	10:00 AM		2.3E+05		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		1.0E+30	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	3.0E+05		3.0E+05	1.0E+03 [b]	1.0E+03 [b]	3.1E+05	300	900
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				4.1E+09		4.1E+09	1.0E+03 [b]		4.1E+09		
Diethylstilbestrol	56-53-1			2.05E-08			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Dimethoate	60-51-5		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [e]	1.0E+30		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			2.6E+05		2.7E+05			2.7E+05	1.0E+03 [b,c]	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			1.0E+06		1.0E+06			1.0E+06	11	
Dimethylphenol 2,4-	105-67-9		4.90E-01				5.6E+05		5.7E+05	1.0E+03 [b]		5.7E+05		
Di-n-butyl phthalate	84-74-2		2.45E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				2.4E+05		2.5E+05	610		2.5E+05		
Dinitrophenol 2,4-	51-28-5		4.90E-02				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-6: Surface Impoundment Composite Liners LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner								
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)			
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	3.2E+05		3.3E+05	0.13 [a]		3.4E+05	0.13 [a]	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			2.6E+05		2.6E+05	1.0E+03 [b,c]		2.6E+05	36	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	2.7E+05		2.7E+05		1.0E+03 [b]	2.8E+05	1.0E+03 [b]	1.0E+03 [b]
Diphenylamine	122-39-4		6.12E-01				2.4E+09		2.5E+09	1.0E+03 [b,c]		2.7E+09		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	1.0E+06		1.0E+06			1.1E+06	130 [c]	1.0E+03 [b,c]
Disulfoton	298-04-4		9.79E-04				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endrin	72-20-8	2.00E-03	7.34E-03				1.0E+30	0.02 [a]	1.0E+30	0.020 [a]		1.0E+30		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		2.8E+05		2.78E+05		1.0E+03 [b]	2.9E+05		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.7E+05		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Ethyl acetate	141-78-6		2.20E+01				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Ethyl ether	60-29-7		4.9				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		
Ethyl methacrylate	97-63-2		2.20E+00				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	1.4E+06	1.0E+03 [b, c]	1.4E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.5E+06		1.0E+03 [b,c]
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	1.0E+30	1.0E+03 [b]	1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.9E+05		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	2.7E+05		2.7E+05	540		2.8E+05	240	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Fluoride	16984-48-8	4.00E+00	2.90E+00					1.0E+03 [b]		1.0E+03 [b]				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.5	2.8E+05		2.8E+05	1.0E+03 [b]	1.0E+03 [b]	3.0E+05		1.0E+03 [b]
Formic acid	64-18-6		4.90E+01				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		
Furfural	98-01-1		7.34E-02		2.20E+01		2.7E+05		2.8E+05	1.0E+03 [b]	1.0E+03 [b]	2.9E+05		
HCH beta-	319-85-7			5.36E-05		1.70E-02	4.5E+06		4.7E+06			4.7E+06	250 [c]	1.0E+03 [b,c]
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	1.0E+30	0.4 [a,b,c]	1.0E+30	0.4 [a,b,c]	0.4 [a,e]	1.0E+30	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		0.196	1.53E-05		3.60E-04	1.0E+30	1.0E+03 [b,e]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [e]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	4.7E+09		4.7E+09	0.50 [a]		4.8E+09	0.50 [a]	0.50 [a]
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	1.0E+30	0.13 [a, c]	1.0E+30	0.13 [a,c]		1.0E+30	0.13 [a,c]	0.13 [a,c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	7.4E+06		7.4E+06	3.0 [a]		7.5E+06	3.0 [a]	3.0 [a]
Hexachlorophene	70-30-4		7.34E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Hexane n-	110-54-3		2.69E+02		6.60E-01		1.3E+06		1.3E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.4E+06		
Hydrogen Sulfide	7783-06-4		7.34E-02				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		3.5E+05		3.5E+05	1.0E+03 [b]	1.0E+03 [b]	3.7E+05	1.0E+03 [b]	
Kepone	143-50-0		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Lead	7439-92-1	1.50E-02						5.0 [a]						

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-6: Surface Impoundment Composite Liners LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Manganese	7439-96-5		1.15E+00							1.0E+03 [b]				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			0.20 [a,c]		0.20 [a,c]	0.20 [a,c]			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		9.2E+05		9.2E+05	1.0E+03 [b]	1.0E+03 [b]	9.7E+05		
Methanol	67-56-1		1.22E+01		1.54E+03		2.8E+05		2.8E+05	1.0E+03 [b]	1.0E+03 [b]	2.9E+05		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a, c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		2.8E+05		2.9E+05	1.0E+03 [b]	1.0E+03 [b]	2.9E+05		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		2.7E+05		2.7E+05	200 [a]	200 [a]	2.8E+05		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		2.7E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		6.8E+10		7.0E+10	1.0E+03 [b,d]	1.0E+03 [b]	7.5E+10		
Methyl parathion	298-00-0		6.12E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]	1.0E+03 [e]	1.0E+30		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		2.7E+05		2.8E+05		1.0E+03 [b]	2.9E+05		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				2.4E+05		2.4E+05	1.0E+03 [b]		2.4E+05		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	6.8E+05	1.0E+03 [b]	6.8E+05	1.0E+03 [b]	1.0E+03 [b]	7.0E+05	1.0E+03 [b]	1.0E+03 [b]
Molybdenum	7439-98-7		1.22E-01							1.0E+03 [b]				
Naphthalene	91-20-3		4.90E-01		1.90E-02		1.8E+06		1.8E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.9E+06		
Nickel	7440-02-0		4.90E-01							1.0E+03 [b]				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		3.0E+05		3.0E+05	2.0 [a]	2.0 [a]	3.2E+05		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	2.7E+05		2.7E+05		1.0E+03 [b]	2.8E+05		6.463
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	2.7E+05		2.7E+05			2.8E+05	0.18	12.04
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	2.7E+05		2.7E+05	53		2.9E+05	0.54	110
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	4.0E+05		4.1E+05			4.2E+05	7.5	8.4
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	2.7E+05		2.7E+05			2.9E+05	3.9	430
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	1.1E+06		1.1E+06	1.0E+03 [b,c]		1.1E+06	1.0E+03 [b,c]	1.0E+03 [b,c]
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	2.8E+05		2.8E+05			2.9E+05	1.3	1.0E+03 [b]
Nitrosopiperidine N-	100-75-4					8.70E-03	2.7E+05		2.7E+05			2.8E+05		1.0E+03 [b]
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	2.7E+05		2.7E+05			2.8E+05	13	1.0E+03 [b]
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				7.0E+05		7.0E+05	1.0E+03 [b]		7.0E+05		
Parathion (ethyl)	56-38-2		0.147				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorobenzene	608-93-5		1.96E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	1.6E+06	100 [a]	1.6E+06	100 [a]		1.7E+06	100 [a]	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		2.9E+05		2.9E+05	1.0E+03 [b]	1.0E+03 [b]	3.0E+05		
Phenyl mercuric acetate	62-38-4		1.96E-03				2.2E+05		2.2E+05	430		2.2E+05		
Phenylenediamine 1,3-	108-45-2		1.47E-01				2.2E+05		2.2E+05	1.0E+03 [b]		2.2E+05		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				4.4E+06		4.4E+06	1.0E+03 [b,c]		4.4E+06		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	3.0E+05		3.1E+05		1.0E+03 [b]	3.1E+05	120	1.0E+03 [b]
Pyrene	129-00-0		7.34E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pyridine	110-86-1		2.45E-02		1.40E+00		2.7E+05		2.8E+05	5.0 [a]	5.0 [a]	2.9E+05		
Safrole	94-59-7			5.36E-04			6.2E+05		6.3E+05			6.3E+05	340	

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-6: Surface Impoundment Composite Liners LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Selenium	7782-49-2	5.00E-02	1.22E-01					1.0 [a]		1.0 [a]				
Silver	7440-22-4		1.22E-01							5.0 [a]				
Strychnine and salts	57-24-9		7.34E-03				3.4E+05		3.5E+05	1.0E+03 [b,c]		3.5E+05		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		1.0E+06	1.0E+03 [b, c]	1.0E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.1E+06		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.00E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	1.0E+30	0.64 [e]	1.0E+30	1.0E+03 [b]		1.0E+30	0.64 [d]	0.64 [d]
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	1.0E+30	0.64 [e]	1.0E+30	1.0E+03 [b]	0.64 [e]	1.0E+30	0.64 [d]	0.64 [d]
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	4.5E+05	0.70 [a]	4.5E+05	0.70 [a]	0.70 [a]	4.5E+05	0.70 [a]	0.70 [a]
Tetrachlorophenol 2,3,4,6-	58-90-2		0.734				5.9E+05		6.0E+05	1.0E+03 [b,c]		6.0E+05		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					380		570				
Thiram [Thiuram]	137-26-8		1.22E-01				3.6E+06		3.6E+06	1.0E+03 [b,c]		3.6E+06		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		5.5E+05	1.0E+03 [b, c]	5.6E+05	1.0E+03 [b,c]	1.0E+03 [b,c]	5.7E+05		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	2.6E+05		2.7E+05			2.8E+05	8.4	1.0E+03 [b]
Toluidine o-	95-53-4			4.02E-04		3.60E-02	2.8E+05		2.9E+05			3.0E+05	120	1.0E+03 [b]
Toluidine p-	106-49-0			5.08E-04			2.4E+05		2.5E+05			2.5E+05	120	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	1.0E+30	0.50 [a]	1.0E+30			1.0E+30	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	9.3E+05	1.0E+03 [b]	9.5E+05	1.0E+03 [b]		9.9E+05	1.0E+03 [b]	1.0E+03 [b]
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		1.3E+06		1.3E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.4E+06		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		3.2E+07	1.0E+03 [b, c]	3.2E+07	1.0E+03 [b,c]	1.0E+03 [b,c]	3.3E+07		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		1.0E+30	0.96 [d]	1.0E+30	0.96 [d]	0.96 [d]	1.0E+30	0.96 [e]	0.96 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	0.0979	1.69E-03		1.10E-03	3.0E+06	0.96 [d]	3.0E+06	0.96 [d]	0.96 [d]	3.1E+06	0.96 [d]	0.96 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	4.0E+05	0.50 [a]	4.1E+05		0.50 [a]	4.2E+05	0.50 [a]	0.50 [a]
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		4.1E+05		4.1E+05	1.0E+03 [b]	1.0E+03 [b]	4.3E+05		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				7.3E+06		7.3E+06	400 [a]		7.3E+06		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	4.6E+05		4.6E+05			4.9E+05	2.0 [a]	2.0 [a]
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				3.1E+05	1.0 [a]	3.1E+05	1.0 [a]		3.1E+05		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				2.6E+05		2.6E+05	1.0E+03 [b,c]		2.6E+05		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		1.3E+09		1.3E+09	1.0E+03 [b]	1.0E+03 [b]	1.5E+09	1.0E+03 [b]	
Triethylamine	121-44-8				1.10E-01		2.9E+05		2.9E+05		1.0E+03 [b]	3.0E+05		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				2.3E+05		2.4E+05	1.0E+03 [b,c]		2.4E+05		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Vanadium	7440-62-2		1.71E-01							1.0E+03 [b]				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		2.6E+05		2.7E+05	1.0E+03 [b]	1.0E+03 [b]	2.8E+05		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	2.8E+05	0.20 [a]	2.8E+05	0.20 [a]	0.20 [a]	3.0E+05	0.20 [a]	0.20 [a]
Xylene m-	108-38-3		4.90E+01		1.30E+00		1.7E+06		1.7E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.8E+06		
Xylene o-	95-47-6		4.90E+01		1.40E+00		1.5E+06		1.5E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.6E+06		
Xylene p-	106-42-3		4.90E+01		1.30E+00		1.9E+06		1.9E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.9E+06		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		1.6E+06	1.0E+03 [b, c]	1.6E+06	1.0E+03 [b,c]	1.0E+03 [b,c]	1.7E+06		
Zinc	7440-66-6		7.34E+00							1.0E+03 [b]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-7: Waste Pile No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				65		66	97 [c]		70		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	10		11		2.4	15		0.62
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		10		11	27	1.0E+03 [b]	15		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		10		11		34	15		
Acetophenone	98-86-2		2.45E+00				10		11	27		15		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	12		12	0.061		17	3.7E-04	88
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		10		11	130	170	15		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	11		12	0.045 [d]	0.44	16	2.8E-04 [d]	0.016
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	1.1E+07		1.1E+07	1.0E+03 [b,c]		1.1E+07	63 [c]	110 [c]
Allyl alcohol	107-18-6		1.22E-01				10		11	1.3		15		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	10		11		10	15	0.26	33
Anthracene	120-12-7		7.34E+00				170		170	1.0E+03 [b,c]		174		
Antimony	7440-36-0	6.00E-03	9.79E-03					0.087		0.16				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				1.0		0.2			5.5E-04	
Barium	7440-39-3	2.00E+00	1.71E+00					24		24				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	3.3E+03		3.3E+03			3.3E+03	0.26 [c]	59 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	11	0.055	12		0.50 [a]	16	0.03	0.025
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	10		11	0.81		15	6.3E-06	39
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	4.6E+04	9.1 [c]	4.6E+04			4.6E+04	0.61 [c]	250 [c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	4.6E+04		4.6E+04			4.6E+04	3.7 [c]	29 [c]
Benzyl alcohol	100-51-6		7.34E+00				10		11	81		15		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	95 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					8.1		16				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	33		35		1.0E+03 [e]	49	4.3E-03	0.054
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	12		13	12		17	0.024	0.10
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	12	0.95	12	6.1		17	0.027	0.014
Bromomethane	74-83-9		3.43E-02		1.50E-02		8.6E+06		8.9E+06	400 [d]	1.0E+03 [b]	2.7E+07		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	11		12		0.71	16		6.5E-04
Butanol n-	71-36-3		2.45E+00				10		11	27		15		
Butyl benzyl phthalate	85-68-7		4.90E+00				210		210	1.0E+03 [b,c]		210		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				11	0.078	12	0.29		16		
Cadmium	7440-43-9	5.00E-03	1.22E-02					0.10		0.26				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		12		12	30	23	17		
Carbon tetrachloride	56-23-5	5.00E-03	1.71E-02	7.43E-04	2.10E-02	7.60E-04	15	0.077	16	0.27	0.33	21	0.016	0.016
Chlordane	57-74-9	2.00E-03	1.22E-02	2.76E-04	2.80E-02	1.50E-03	1.1E+05	0.030 [a]	1.1E+05	0.030 [a]	0.030 [a]	1.1E+05	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		11		11	5.6	0.25	16		
Chloroaniline p-	106-47-8		9.79E-02				10		11	1.1		15		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		14	1.4	14	6.9	2.8	19		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	330		330	160 [c]		340	0.12	400 [c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	12	0.94	12	6		17	0.020	0.013
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		10		11		330	15		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		11	0.86	11	2.8	3.7	16		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	10		11		2.9	15	0.11	0.089
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		11		12	1.4	0.11	16		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					67		1.0E+03 [b]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-7: Waste Pile No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				
Chrysene	218-01-9			8.05E-04		7.30E-03	3.3E+03		3.3E+03			3.3E+03	2.6 [c]	24 [c]
Cobalt	7440-48-4		4.90E-01							27				
Copper	7440-50-8	1.30E+00						150						
Cresol m-	108-39-4		1.22E+00		1.20E+03		11		11	14	200 [a]	16		
Cresol o-	95-48-7		1.22E+00		8.80E+02		11		11	14	200 [a]	16		
Cresol p-	106-44-5		1.22E-01		1.30E+03		11		11	1.4	200 [a]	16		
Cresols	1319-77-3		1.22E+00		1.10E+03		12		12	15	1.0E+03 [b]	17		
Cumene	98-82-8		2.45E+00		1.30E+00		35		35	85 [c]	45	39		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		10		11	4.60E-03	0.0043	15		
Cyclohexanone	108-94-1		1.22E+02				11		12	1.0E+03 [b]		16		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			6.7E+17		6.7E+17			6.7E+17	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			1.5E+05		1.5E+05			1.5E+05	240 [c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.8E+12		1.8E+12			1.8E+12	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	13	2.7E-03	14		0.040	19	1.3E-03	1.5
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		22	13	22	48	17	27		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	21	1.6	21		7.5 [a]	26	0.10	0.034
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	30		31			35	7.5E-03	170 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		12		12	59	7.0	17		
Dichloroethane 1,1-	75-34-3		2.45E+00		1.60E+00	7.40E-03	12	0.046 [e]	12	0.45 [d]	0.45 [d]	17	4.6E-03 [e]	0.085 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	11	0.033 [d]	12	0.32 [e]	0.32 [d]	16	3.2E-03 [d]	0.010
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				11	0.76	11	2.8		16		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				10	1.0	11	5.4		15		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	11	0.076	11	0.70 [a]	0.70 [a]	16	2.5E-03	3.5E-03
Dichlorophenol 2,4-	120-83-2		7.34E-02				13		13	1		18		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				10	0.72	11	2.7		15		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		15	0.075	16	35	0.022	22	0.031	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	10		11	8.1	0.67	15	0.015	0.044
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	6.5E+13		6.5E+13	1.0E+03 [b,c]		6.5E+13	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				15		15	300		22		
Diethylstilbestrol	56-53-1			2.05E-08			130		130			137	2.8E-06	
Dimethoate	60-51-5		4.90E-03				3.1E+03		3.4E+03	2.7 [d]	1.0E+03 [e]	4.7E+03		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			10		11			15	0.10	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		10		11	27	1.0E+03 [b]	15		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	6.0E+16		6.1E+16			6.1E+16		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			13		14			18	1.9E-04	
Dimethylphenol 2,4-	105-67-9		4.90E-01				12		12	6.1		17		
Di-n-butyl phthalate	84-74-2		2.45E+00				290		290	700 [c]		290		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				10		11	0.027		15		
Dinitrophenol 2,4-	51-28-5		4.90E-02				10		11	0.54		15		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	10		11	0.13 [a]		15	2.1E-03	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			10		11	0.27		15	2.1E-03	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	10		11		1.0E+03 [b]	15	0.13	2.72

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-7: Waste Pile No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Diphenylamine	122-39-4		6.12E-01				29		29	18		33		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	16		17			21	2.5E-03	0.42
Disulfoton	298-04-4		9.79E-04				2.8E+06		2.8E+06	1.0E+03 [b,c]		4.7E+06		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				45		45	6.6 [c]		49		
Endrin	72-20-8	2.00E-03	7.34E-03				2.4E+06	0.020 [a]	2.4E+06	0.020 [a]		2.4E+06		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		10		11		2.6	15		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		10		11	110	1.0E+03 [b]	15		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		10		11	81	1.0E+03 [b]	15		
Ethyl acetate	141-78-6		2.20E+01				43		45	990		64		
Ethyl ether	60-29-7		4.90E+00				10		11	54		15		
Ethyl methacrylate	97-63-2		2.20E+00				20		21	47		30		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	20	14	20	49	66	25		0.27
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	150	7.4E-03	150		0.15	220	2.5E-04	0.019
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		10		11	540	1.0E+03 [b]	15		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.2E+12		1.4E+12		1.0E+03 [b]	3.4E+12	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	10		11	0.022		15	0.013	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				450		450	440 [c]		450		
Fluoride	16984-48-8	4.00E+00	2.90E+00					38		32				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.50E+00	10		11	54	560	15		23
Formic acid	64-18-6		4.90E+01				10		11	540		15		
Furfural	98-01-1		7.34E-02		2.20E+01		10		11	0.81	240	15		
HCH beta-	319-85-7			5.36E-05		1.70E-02	37		37			41	2.2E-03	0.69 [c]
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	5.9E+06	0.4 [a,d]	6.0E+06	0.4 [a,d]	0.4 [a,e]	8.6E+06	0.4 [a,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		1.96E-01	1.53E-05		3.60E-04	9.2E+06	11 [e]	9.4E+06	25 [c,d]	140 [e]	1.3E+07	210 [c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	4.2E+09	1.0E+03 [b, c]	4.3E+09	1.0E+03 [b,c]		4.3E+09	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	310		310	0.50 [a]		310	0.38	0.19
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	4.3E+03	0.13 [a, c]	4.3E+03	0.13 [a,c]		4.3E+03	0.13 [a,c]	0.13 [a,c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	4.6E+09		4.7E+09			4.7E+09	29 [c]	670 [c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	51		51	1.3		55	0.38	0.18
Hexachlorophene	70-30-4		7.34E-03				1.1E+03		1.1E+03	8.2		1.1E+03		
Hexane n-	110-54-3		2.69E+02		6.60E-01		19		19	1.0E+03 [b,c]	13 [c]	24		
Hydrogen Sulfide	7783-06-4		7.34E-02				10		11	0.81		15		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	9.9E+07		1.0E+08			1.0E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				10		11	81		15		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		11		12	56	1.0E+03 [b]	16	1.6	
Kepone	143-50-0		1.22E-02				150		150	1.8		160		
Lead	7439-92-1	1.50E-02						3.9						
Manganese	7439-96-5		1.15E+00							17				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			0.020		0.027	0.0084			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		11		12	0.028	0.075	16		
Methanol	67-56-1		1.22E+01		1.54E+03		10		11	130	1.0E+03 [b]	15		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a, c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		10		11	0.54	1.0E+03 [b]	15		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-7: Waste Pile No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		10		11	0.27	1.0E+03 [b]	15		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		10		11	160	200 [a]	15		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		10		11	22	13	15		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		26		26	420 [d]	140	36		
Methyl parathion	298-00-0		6.12E-03				2.0E+05		2.1E+05	6.2 [d]	1.0E+03 [e]	3.1E+05		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		10		11		190	15		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				10		11	2.7		15		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	10	0.052	11	16	110	15	0.20	0.43
Molybdenum	7439-98-7		1.22E-01							1.2				
Naphthalene	91-20-3		4.90E-01		1.90E-02		22		23	11	0.43	27		
Nickel	7440-02-0		4.90E-01							9.9				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		10		11	0.13	1.7	15		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	10		11		3.6	15		3.5E-04
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	10		11			15	9.7E-06	6.5E-04
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	10		11	2.2E-03		15	2.9E-05	6.0E-03
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	11		12			16	2.9E-04	3.3E-04
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	10		11			15	2.1E-04	0.023
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	17		17	8.3		21	0.42	11
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	10		11			15	6.6E-05	0.068
Nitrosopiperidine N-	100-75-4					8.70E-03	10		11			15		0.13
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	10		11			15	6.9E-04	14
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				11		12	0.57		16		
Parathion (ethyl)	56-38-2		1.47E-01				2.1E+08		2.1E+08	1.0E+03 [b,c]		3.4E+08		
Pentachlorobenzene	608-93-5		1.96E-02				3.9E+03		3.9E+03	76 [c]		3.9E+03		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	940		940			940	1.2E-06	5.9E-05
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	3.2E+08		3.3E+08			3.3E+08	0.21 [c]	20 [c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			390		390	29 [c]		390	0.14	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	21	0.021	21	16		26	0.021	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		10		11	160	1.0E+03 [b]	15		
Phenyl mercuric acetate	62-38-4		1.96E-03				10		11	0.022		15		
Phenylenediamine 1,3-	108-45-2		1.47E-01				10		11	1.6		15		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	1.4E+07	1.0E+03 [b, c]	1.4E+07	1.0E+03 [b,c]		1.4E+07	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				14		15	27		19		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	10		11		5.4	15	6.1E-03	0.26
Pyrene	129-00-0		7.34E-01				910		910	670 [c]		910		
Pyridine	110-86-1		2.45E-02		1.40E+00		10		11	0.27	5.0 [a]	15		
Safrole	94-59-7			5.36E-04			12		13			17	9.1E-03	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.46		1.0 [a]				
Silver	7440-22-4		1.22E-01							2				
Strychnine and salts	57-24-9		7.34E-03				11		12	0.085		16		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		17	1.7	17	83	61	21		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				200		200	1.5 [c]		210		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	2.3E+15		2.3E+15			2.3E+15	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	2.0E+06	0.059 [c]	2.0E+06	0.049 [c]		2.0E+06	1.3E-03 [c]	4.4E-03 [c]
Tetrachloroethane 1,1,1,2-	630-20-6		7.34E-01	3.71E-03		1.90E-03	19	0.073 [e]	20	14		26	0.095	0.048
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	120	0.073 [e]	130	190	0.64 [e]	180	0.085	0.088

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-7: Waste Pile No-Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	12	0.059	12	0.70 [a]	0.70 [a]	17	0.031	0.35
Tetrachlorophenol 2,3,4,6-	58-90-2		7.34E-01				12		13	9.2		17		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					0.019		0.021				
Thiram [Thiuram]	137-26-8		1.22E-01				16		17	2		21		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		13	13	13	64	17	18		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	10		11			15	4.6E-04	110
Toluidine o-	95-53-4			4.02E-04		3.60E-02	10		11			15	6.1E-03	0.54
Toluidine p-	106-49-0			5.08E-04			10		11			15	7.7E-03	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	1.6E+05	0.50 [a]	1.6E+05			1.7E+05	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	12	0.94	12	5.9		17	0.20	0.32
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		19		20	1.0E+03 [b,c]	1.0E+03 [b,c]	24		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		100	7.1	100	25.2	86 [c]	110		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		610	0.11 [d]	640	0.96 [d]	0.96 [d]	920	3.5E-03 [e]	4.8E-03 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	9.79E-02	1.69E-03		1.10E-03	12	0.060	12	0.96 [d]	0.96 [e]	17	3.5E-03 [d]	4.8E-03 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	11	0.057	12		0.50 [a]	16	0.14	0.11
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		12		12	88	25	16		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				18		18	45		23		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	12		12			17	0.15	2.0 [a]
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				11	0.54	11	1.0 [a]		16		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				10		11	2.7		15		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		12		13	1.9	0.44	18	2.5E-04	
Triethylamine	121-44-8				1.10E-01		10		11		1.2	15		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				10		11	8.1		15		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			200		210			260	2.5E-03	
Vanadium	7440-62-2		1.71E-01							57				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		10		11	270	13	15		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	10	0.021	11	0.20 [a]	0.20 [a]	15	2.0E-03	0.038
Xylene m-	108-38-3		4.90E+01		1.30E+00		22		22	1.0E+03 [b,c]	29	27		
Xylene o-	95-47-6		4.90E+01		1.40E+00		20		21	1.0E+03 [b,c]	29	25		
Xylene p-	106-42-3		4.90E+01		1.30E+00		23		23	1.0E+03 [b,c]	30	28		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		21	210 [c]	22	1.0E+03 [b,c]	30	27		
Zinc	7440-66-6		7.34E+00							180				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-8: Waste Pile Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation			LCTV based on MCL (mg/L)	Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF		7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				210		210	300 [c]		210		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	24		24		5.3	33		1.4
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		24		24	60	1.0E+03 [b]	33		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		24		25		76	34		
Acetophenone	98-86-2		2.45E+00				24		24	60		33		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	29		30	0.15		41	8.9E-04	210
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		24		24	300	360	33		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	25		26	0.11 [d]	0.98	36	6.6E-04 [d]	0.036
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	2.6E+11		2.6E+11	1.0E+03 [b,c]		2.6E+11	1.0E+03 [b,c]	1.0E+03 [b,c]
Allyl alcohol	107-18-6		1.22E-01				24		24	3		33		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	24		24		23	33	0.56	73
Anthracene	120-12-7		7.34E+00				560		560	1.0E+03 [b,c]		560		
Antimony	7440-36-0	6.00E-03	9.79E-03					0.16		0.34				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				2.0		0.38			0.012	
Barium	7440-39-3	2.00E+00	1.71E+00					48		50				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	2.2E+04		2.2E+04			2.2E+04	1.7 [c]	390 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	26	0.13	27		0.50 [a]	35	0.06	0.056
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	24		24	1.8		33	1.4E-05	87
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	1.5E+06	290 [c]	1.5E+06			1.5E+06	19 [c]	1.0E+03 [b,c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	1.5E+06		1.5E+06			1.5E+06	120 [c]	950 [c]
Benzyl alcohol	100-51-6		7.34E+00				24		24	180		33		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	210 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					21		52				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	120		130		1.0E+03 [e]	180	0.016	0.20
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	32		33	32		42	0.058	0.25
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	29	2.3	30	15		40	0.063	0.032
Bromomethane	74-83-9		3.43E-02		1.50E-02		7.9E+09		8.0E+09	880 [d]	1.0E+03 [b]	1.7E+10		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	28		28		1.7	37		1.5E-03
Butanol n-	71-36-3		2.45E+00				24		24	60		33		
Butyl benzyl phthalate	85-68-7		4.90E+00				760		760	1.0E+03 [b,c]		760		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				27	0.19	28	0.68		36		
Cadmium	7440-43-9	5.00E-03	1.22E-02					0.20		0.67				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		29		29	72	56	40		
Carbon tetrachloride	56-23-5	5.00E-03	1.71E-02	7.43E-04	2.10E-02	7.60E-04	42	0.21	43	0.50 [a]	0.50 [a]	57	0.043	0.044
Chlordane	57-74-9	2.00E-03	1.22E-02	2.76E-04	2.80E-02	1.50E-03	9.2E+06	0.030 [a]	9.5E+06	0.030 [a]	0.030 [a]	9.5E+06	0.030 [a]	
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		26		26	13	0.58	35		
Chloroaniline p-	106-47-8		9.79E-02				24		24	2.4		33		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		37	3.7	37	18	7.4	47		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	1.6E+03		1.6E+03	760 [c]		1.6E+03	0.56	1.0E+03 [b,c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	29	2.3	29	14		40	0.046	0.030
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		24		24		730	33		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		26	2.0	26	6.0 [a]	6.0 [a]	35		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	24		24		6.3	33	0.25	0.20
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		26		27	3.3	0.26	35		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					160		1.0E+03 [b]				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-8: Waste Pile Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chrysene	218-01-9			8.05E-04		7.30E-03	2.2E+04		2.2E+04			2.2E+04	17 [c]	160 [c]
Cobalt	7440-48-4		4.90E-01							73				
Copper	7440-50-8	1.30E+00						370						
Cresol m-	108-39-4		1.22E+00		1.20E+03		26		26	32	200 [a]	35		
Cresol o-	95-48-7		1.22E+00		8.80E+02		26		26	32	200 [a]	35		
Cresol p-	106-44-5		1.22E-01		1.30E+03		26		26	3.2	200 [a]	35		
Cresols	1319-77-3		1.22E+00		1.10E+03		29		29	36	1.0E+03 [b]	38		
Cumene	98-82-8		2.45E+00		1.30E+00		110		110	260 [c]	140 [c]	120		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		24		24	0.01	9.5E-03	33		
Cyclohexanone	108-94-1		1.22E+02				26		26	1.0E+03 [b]		35		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT, p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			1.1E+07		1.1E+07			1.1E+07	1.0E+03 [b,c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	35	7.1E-03	36		0.11	50	3.4E-03	3.9
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		64	38	64	140	49	73		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	61	4.6	61		7.5 [a]	70	0.28	0.091
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	92		93			100	0.022	500 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		29		30	150	17	38		
Dichloroethane 1,1-	75-34-3		2.45E+00		1.60E+00	7.40E-03	28	0.11 [e]	29	0.45 [d]	0.45 [d]	40	0.010 [e]	0.19 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	27	0.075 [d]	28	0.32 [e]	0.32 [d]	38	7.1E-03 [d]	0.024
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				25	1.8	26	6.3		35		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				24	2.4	24	12		33		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	26	0.18	27	0.70 [a]	0.70 [a]	35	5.7E-03	7.8E-03
Dichlorophenol 2,4-	120-83-2		7.34E-02				34		35	2.6		44		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				24	1.7	24	6		33		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		40	0.20	41	91	0.58	58	0.083	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	24		24	18	1.5	33	0.032	0.10
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				40		41	800		55		
Diethylstilbestrol	56-53-1			2.05E-08			430		430			430	8.9E-06	
Dimethoate	60-51-5		4.90E-03				5.0E+04		5.3E+04	6.0 [d]	1.0E+03 [e]	7.6E+04		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			24		24			33	0.23	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		24		24	60	1.0E+03 [b]	33		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			35		36			46	4.8E-04	
Dimethylphenol 2,4-	105-67-9		4.90E-01				31		31	15		39		
Di-n-butyl phthalate	84-74-2		2.45E+00				1.0E+03		1.0E+03	1.0E+03 [b,c]		1.0E+03		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				24		24	0.06		33		
Dinitrophenol 2,4-	51-28-5		4.90E-02				24		24	1.2		33		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	24		24	0.13 [a]		33	4.7E-03	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			24		24	0.6		33	4.7E-03	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	24		24		1.0E+03 [b]	33	0.29	6.0
Diphenylamine	122-39-4		6.12E-01				87		89	54 [c]		95		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-8: Waste Pile Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation			LCTV based on MCL (mg/L)	Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF		7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	45		45			56	0.007	1.1
Disulfoton	298-04-4		9.79E-04				1.6E+09		1.6E+09	1.0E+03 [b,c]		2.4E+09		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				138		139	20 [c]		150		
Endrin	72-20-8	2.00E-03	7.34E-03				5.5E+08	0.020 [a]	5.6E+08	0.020 [a]		5.6E+08		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		24		24		5.8	33		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		24		24	240	1.0E+03 [b]	33		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		24		24	180	1.0E+03 [b]	33		
Ethyl acetate	141-78-6		2.20E+01				150		150	1.0E+03 [b]		214		
Ethyl ether	60-29-7		4.90E+00				24		24	120		33		
Ethyl methacrylate	97-63-2		2.20E+00				58		60	130		82		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	57	39.6	57	140	190 [c]	66		0.72
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	900	0.045	930		0.91	1.4E+03	1.6E-03	0.11
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		24		24	1.0E+03 [b]	1.0E+03 [b]	33		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	24		24	0.048		33	0.029	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				1.5E+03		1.5E+03	1.0E+03 [b,c]		1.5E+03		
Fluoride	16984-48-8	4.00E+00	2.90E+00					72		66				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.50E+00	24		24	120	1.0E+03 [b]	33		50
Formic acid	64-18-6		4.90E+01				24		24	1.0E+03 [b]		33		
Furfural	98-01-1		7.34E-02		2.20E+01		24		24	1.8	530	33		
HCH beta-	319-85-7			5.36E-05		1.70E-02	110		110			120	6.5E-03	2.1 [c]
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	6.0E+09	0.4 [a,d]	6.1E+09	0.4 [a,d]	0.4 [a,e]	8.1E+09	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		1.96E-01	1.53E-05		3.60E-04	1.3E+10	38 [e]	1.4E+10	83 [c,d]	450 [c,e]	1.9E+10	1.0E+03 [b,c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	1.1E+03		1.1E+03	0.50 [a]		1.1E+03	0.50 [a]	0.50 [a]
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	3.4E+04	0.13 [a, c]	3.4E+04	0.13 [a,c]		3.4E+04	0.13 [a,c]	0.13 [a,c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	160		160	3.0 [a]		170	1.2	0.55
Hexachlorophene	70-30-4		7.34E-03				4.6E+03		4.6E+03	34		4.6E+03		
Hexane n-	110-54-3		2.69E+02		6.60E-01		53		53	1.0E+03 [b,c]	35 [c]	63		
Hydrogen Sulfide	7783-06-4		7.34E-02				24		24	1.8		33		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	1.7E+14		1.7E+14			1.7E+14	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				24		24	180		33		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		27		27	130	1.0E+03 [b]	36	3.6	
Kepone	143-50-0		1.22E-02				490		490	6		500		
Lead	7439-92-1	1.50E-02						5.0 [a]						
Manganese	7439-96-5		1.15E+00							37				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			0.039		0.058	0.019			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		25		26	0.063	0.17	36		
Methanol	67-56-1		1.22E+01		1.54E+03		24		24	300	1.0E+03 [b]	33		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a, c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		24		24	1.2	1.0E+03 [b]	33		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-8: Waste Pile Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation			LCTV based on MCL (mg/L)	Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF		7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		24		24	0.6	1.0E+03 [b]	33		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		24		24	200 [a]	200 [a]	33		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		24		24	48	29	33		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		73		75	930 [b,d]	400	110		
Methyl parathion	298-00-0		6.12E-03				2.7E+07		2.8E+07	9.2 [d]	1.0E+03 [e]	4.5E+07		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		24		24		410	33		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				24		24	6		33		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	25	0.12	25	37	250	34	0.44	1.0
Molybdenum	7439-98-7		1.22E-01							2.8				
Naphthalene	91-20-3		4.90E-01		1.90E-02		66		67	33 [c]	1.3	76		
Nickel	7440-02-0		4.90E-01							22				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		24		24	0.3	2.0 [a]	33		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	24		24		8.0	33		7.7E-04
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	24		24			33	2.2E-05	1.4E-03
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	24		24	4.80E-03		33	6.3E-05	0.013
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	28		29			37	6.7E-04	7.4E-04
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	24		24			33	4.6E-04	0.050
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	46		47	23		57	1.1	30
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	24		24			33	1.5E-04	0.15
Nitrosopiperidine N-	100-75-4					8.70E-03	24		24			33		0.29
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	24		24			33	1.5E-03	31
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				26		27	1.3		37		
Parathion (ethyl)	56-38-2		1.47E-01				6.6E+17		7.0E+17	1.0E+03 [b,c]		9.4E+17		
Pentachlorobenzene	608-93-5		1.96E-02				2.9E+04		2.9E+04	560 [c]		2.9E+04		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	3.8E+03		3.8E+03			3.8E+03	4.7E-06	2.4E-04 [c]
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	3.6E+17		3.6E+17			3.6E+17	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			1.3E+03		1.3E+03	97 [c]		1.3E+03	0.49	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	61	0.061	62	46		71	0.057	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		24		24	360	1.0E+03 [b]	33		
Phenyl mercuric acetate	62-38-4		1.96E-03				24		24	0.048		33		
Phenylenediamine 1,3-	108-45-2		1.47E-01				24		24	3.6		33		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	4.3E+11	1.0E+03 [b, c]	4.3E+11	1.0E+03 [b,c]		4.4E+11	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				39		40	73 [c]		51		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	24		24		11.9	33	0.013	0.57
Pyrene	129-00-0		7.34E-01				3.6E+03		3.6E+03	1.0E+03 [b,c]		3.6E+03		
Pyridine	110-86-1		2.45E-02		1.40E+00		24		24	0.6	5.0 [a]	33		
Safrole	94-59-7			5.36E-04			31		32			40	0.022	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.87		1.0 [a]				
Silver	7440-22-4		1.22E-01							3.8				
Strychnine and salts	57-24-9		7.34E-03				26		27	0.2		36		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		47	4.7	47	230	170	57		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				670		670	4.9 [c]		670		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	8.9E+09	270 [c]	9.0E+09	220 [c]		9.0E+09	5.8 [c]	20 [c]
Tetrachloroethane 1,1,1,2-	630-20-6		7.34E-01	3.71E-03		1.90E-03	58	0.18 [e]	59	43		72	0.27	0.14

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-8: Waste Pile Single Clay Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Compacted Clay Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	510	0.18 [e]	520	770	0.64 [e]	710	0.34	0.32 [d]
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	30	0.15	30	0.70 [a]	0.70 [a]	39	0.072	0.70 [a]
Tetrachlorophenol 2,3,4,6-	58-90-2		7.34E-01				31		32	23		40		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					0.035		0.046				
Thiram [Thiuram]	137-26-8		1.22E-01				45		45	5.5		56		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		33	33	34	170	44	43		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	24		24			33	1.0E-03	250
Toluidine o-	95-53-4			4.02E-04		3.60E-02	24		24			33	0.013	1.2
Toluidine p-	106-49-0			5.08E-04			24		24			33	0.017	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	9.5E+06	0.50 [a]	9.7E+06			9.7E+06	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	29	2.3	29	14		39	0.47	0.74
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		54		55	1.0E+03 [b,c]	1.0E+03 [b,c]	64		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		340	24	340	83 [c]	280 [c]	340		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		5.8E+03	0.25 [d]	6.0E+03	0.96 [d]	0.96 [d]	8.7E+03	7.8E-03 [e]	0.11 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	9.79E-02	1.69E-03		1.10E-03	29	0.14	30	0.96 [d]	0.96 [e]	40	7.8E-03 [d]	0.011 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	28	0.14	29		0.50 [a]	37	0.33	0.25
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		29		29	210	61	38		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				50		51	120		61		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	30		31			40	0.35	2.0 [a]
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				26	1.0 [a]	26	1.0 [a]		35		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				24		24	6		33		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		32		32	4.8	1.1	44	6.1E-04	
Triethylamine	121-44-8				1.10E-01		24		24		2.7	33		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				24		24	18		33		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			1.2E+03		1.2E+03			1.4E+03	0.014	
Vanadium	7440-62-2		1.71E-01							170				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		24		24	600	29	33		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	24	0.048	24	0.2 [a]	0.20 [a]	33	4.5E-03	0.084
Xylene m-	108-38-3		4.90E+01		1.30E+00		65		65	1.0E+03 [b,c]	84	74		
Xylene o-	95-47-6		4.90E+01		1.40E+00		58		59	1.0E+03 [b,c]	83	68		
Xylene p-	106-42-3		4.90E+01		1.30E+00		67		68	1.0E+03 [b,c]	88	77		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		64	640 [c]	64	1.0E+03 [b,c]	89	73		
Zinc	7440-66-6		7.34E+00							430				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-9: Waste Pile Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	7.3E+07		7.3E+07		1.0E+03 [b]	7.9E+07		1.0E+03 [b]
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		6.9E+07		7.1E+07	1.0E+03 [b]	1.0E+03 [b]	7.6E+07		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		7.4E+07		7.7E+07		1.0E+03 [b]	8.1E+07		
Acetophenone	98-86-2		2.45E+00				4.0E+08		4.0E+08	1.0E+03 [b]		4.0E+08		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		7.1E+07		7.2E+07	1.0E+03 [b]	1.0E+03 [b]	7.4E+07		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	5.9E+08		6.0E+08	740 [b]	740 [d]	6.2E+08	750 [d]	750 [d]
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Allyl alcohol	107-18-6		1.22E-01				4.7E+08		4.8E+08	1.0E+03 [b]		4.8E+08		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	7.3E+07		7.4E+07		1.0E+03 [b]	7.8E+07	1.0E+03 [b]	1.0E+03 [b]
Anthracene	120-12-7		7.34E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Antimony	7440-36-0	6.00E-03	9.79E-03					1.0E+03 [b]		1.0E+03 [b]				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				5.0 [a]		5.0 [a]			5.0 [a]	
Barium	7440-39-3	2.00E+00	1.71E+00					100 [a]		100 [a]				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	9.2E+07	0.50 [a]	9.4E+07		0.50 [a]	9.7E+07	0.50 [a]	0.50 [a]
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	8.3E+07		8.3E+07	1.0E+03 [b,c]		8.7E+07	36	1.0E+03 [b,c]
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	1.0E+30	1.0E+03 [b, c]	1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Benzyl alcohol	100-51-6		7.34E+00				3.2E+08		3.2E+08	1.0E+03 [b]		3.2E+08		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	1.0E+03 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					1.0E+03 [b]		1.0E+03 [b]				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	1.0E+30		1.0E+30		1.0E+03 [e]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	1.7E+08		1.7E+08	1.0E+03 [b]		1.8E+08	1.0E+03 [b]	1.0E+03 [b]
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	2.3E+09	1.0E+03 [b]	2.3E+09	1.0E+03 [b]		2.3E+09	1.0E+03 [b]	1.0E+03 [b]
Bromomethane	74-83-9		3.43E-02		1.50E-02		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	1.1E+08		1.1E+08		1.0E+03 [b,c]	1.2E+08		1.0E+03 [b,c]
Butanol n-	71-36-3		2.45E+00				3.0E+08		3.1E+08	1.0E+03 [b]		3.1E+08		
Butyl benzyl phthalate	85-68-7		4.90E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				1.8E+09	1.0E+03 [b, c]	1.8E+09	1.0E+03 [b,c]		1.8E+09		
Cadmium	7440-43-9	5.00E-03	1.22E-02					1.0 [a]		1.0 [a]				
Carbon disulfide	75-15-0		2.45E+00		1.00E+01		1.2E+09		1.2E+09	1.0E+03 [b]	1.0E+03 [b]	1.2E+09		
Carbon tetrachloride	56-23-5	5.00E-03	1.71E-02	7.43E-04	2.10E-02	7.60E-04	1.0E+30	0.50 [a]	1.0E+30	0.50 [a]	0.50 [a]	1.0E+30	0.50 [a]	0.50 [a]
Chlordane	57-74-9	2.00E-03	1.22E-02	2.76E-04	2.80E-02	1.50E-03	1.0E+30	0.030 [a]	1.0E+30	0.030 [a]	0.030 [a]	1.0E+30	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		9.2E+07		9.3E+07	1.0E+03 [b]	1.0E+03 [b]	9.6E+07		
Chloroaniline p-	106-47-8		9.79E-02				6.0E+08		6.0E+08	1.0E+03 [b]		6.0E+08		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		1.9E+08	100 [a]	2.0E+08	100 [a]	100 [a]	2.0E+08		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	9.5E+08	1.0E+03 [b,	1.0E+09	1.0E+03 [b]		1.0E+09	1.0E+03 [b]	1.0E+03 [b]
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		7.5E+07		7.6E+07		1.0E+03 [b]	7.8E+07		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		2.2E+08	6.0 [a]	2.2E+08	6.0 [a]	6.0 [a]	2.3E+08		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	7.2E+07		7.3E+07		1.0E+03 [b]	7.7E+07	1.0E+03 [b]	1.0E+03 [b]
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		9.6E+07		9.8E+07	1.0E+03 [b]	1.0E+03 [b]	9.9E+07		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-9: Waste Pile Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					1.0E+03 [b]		1.0E+03 [b]				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				
Chrysene	218-01-9			8.05E-04		7.30E-03	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Cobalt	7440-48-4		4.90E-01							1.0E+03 [b]				
Copper	7440-50-8	1.30E+00						1.0E+03 [b]						
Cresol m-	108-39-4		1.22E+00		1.20E+03		9.1E+07		9.1E+07	200 [a]	200 [a]	9.6E+07		
Cresol o-	95-48-7		1.22E+00		8.80E+02		9.1E+07		9.2E+07	200 [a]	200 [a]	9.6E+07		
Cresol p-	106-44-5		1.22E-01		1.30E+03		9.1E+07		9.1E+07	200 [a]	200 [a]	9.6E+07		
Cresols	1319-77-3		1.22E+00		1.10E+03		1.2E+08		1.2E+08	1.0E+03 [b]	1.0E+03 [b]	1.2E+08		
Cumene	98-82-8		2.45E+00		1.30E+00		1.2E+09		1.2E+09	1.0E+03 [b,c]	1.0E+03 [b,c]	1.3E+09		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		7.7E+07		7.8E+07	1.0E+03 [b]	1.0E+03 [b]	8.3E+07		
Cyclohexanone	108-94-1		1.22E+02				8.7E+08		8.8E+08	1.0E+03 [b]		8.8E+08		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	1.0E+30	1.0E+03 [b]	1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		4.5E+08	1.0E+03 [b, c]	4.6E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	4.7E+08		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	4.3E+08	7.5 [a]	4.3E+08		7.5 [a]	4.5E+08	7.5 [a]	7.5 [a]
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	1.3E+09		1.4E+09			1.4E+09	1.0E+03 [b,c]	1.0E+03 [b,c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		1.2E+08		1.2E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	1.3E+08		
Dichloroethane 1,1-	75-34-3		2.45E+00		1.60E+00	7.40E-03	3.4E+14	0.45 [e]	3.5E+14	0.45 [d]	0.45 [d]	4.2E+14	0.45 [e]	0.45 [d]
Dichloroethane1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	3.0E+21	0.32 [d]	3.0E+21	0.32 [e]	0.32 [d]	3.0E+21	0.32 [d]	0.32 [d]
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				7.3E+08	1.0E+03 [b]	7.4E+08	1.0E+03 [b]		7.4E+08		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				5.8E+08	1.0E+03 [b]	5.8E+08	1.0E+03 [b]		5.8E+08		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	8.5E+07	0.70 [a]	8.7E+07	0.70 [a]	0.70 [a]	9.3E+07	0.70 [a]	0.70 [a]
Dichlorophenol 2,4-	120-83-2		7.34E-02				1.3E+11		1.3E+11	1.0E+03 [b]		1.3E+11		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				3.1E+08	10 [a]	3.1E+08	10 [a]		3.1E+08		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		1.0E+30	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	8.3E+07		8.5E+07	1.0E+03 [b]	1.0E+03 [b]	8.8E+07	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Diethylstilbestrol	56-53-1			2.05E-08			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Dimethoate	60-51-5		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [e]	1.0E+30		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			4.7E+08		4.9E+08			4.9E+08	1.0E+03 [b,c]	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		7.2E+07		7.2E+07	1.0E+03 [b]	1.0E+03 [b]	7.7E+07		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			8.9E+11		9.1E+11			9.3E+11	1.0E+03 [b]	
Dimethylphenol 2,4-	105-67-9		4.90E-01				9.2E+09		9.4E+09	1.0E+03 [b]		9.4E+09		
Di-n-butyl phthalate	84-74-2		2.45E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				4.0E+08		4.0E+08	1.0E+03 [b,c]		4.0E+08		
Dinitrophenol 2,4-	51-28-5		4.90E-02				2.9E+08		2.9E+08	1.0E+03 [b]		2.9E+08		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-9: Waste Pile Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner								
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)			
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	8.9E+07		9.1E+07	0.13 [a]		9.5E+07	0.13 [a]	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			4.4E+08		4.5E+08	1.0E+03 [b,c]		4.5E+08	1.0E+03 [b,c]	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	7.2E+07		7.2E+07		1.0E+03 [b]	7.6E+07	1.0E+03 [b]	1.0E+03 [b]
Diphenylamine	122-39-4		6.12E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	3.0E+08		3.0E+08			3.1E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Disulfoton	298-04-4		9.79E-04				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Endrin	72-20-8	2.00E-03	7.34E-03				1.0E+30	0.020 [a]	1.0E+30	0.020 [a]		1.0E+30		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane 1, 2-	106-88-7				2.40E-01		7.3E+07		7.3E+07		1.0E+03 [b]	7.8E+07		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		7.3E+07		7.4E+07	1.0E+03 [b]	1.0E+03 [b]	7.7E+07		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		7.8E+07		8.0E+07	1.0E+03 [b]	1.0E+03 [b]	8.2E+07		
Ethyl acetate	141-78-6		2.20E+01				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Ethyl ether	60-29-7		4.90E+00				3.0E+08		3.0E+08	1.0E+03 [b]		3.0E+08		
Ethyl methacrylate	97-63-2		2.20E+00				1.0E+30		1.0E+30	1.0E+03 [b]		1.0E+30		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	4.0E+08	1.0E+03 [b, c]	4.0E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	4.2E+08		1.0E+03 [b,c]
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	1.0E+30	1.0E+03 [b]	1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		7.3E+07		7.3E+07	1.0E+03 [b]	1.0E+03 [b]	7.9E+07		
Ethylene oxide	75-21-8			9.47E-05	1.00E+01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	7.5E+07		7.5E+07	1.0E+03 [b]		7.8E+07	1.0E+03 [b]	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Fluoride	16984-48-8	4.00E+00	2.90E+00					1.0E+03 [b]		1.0E+03 [b]				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.50E+00	7.4E+07		7.4E+07	1.0E+03 [b]	1.0E+03 [b]	7.8E+07		1.0E+03 [b]
Formic acid	64-18-6		4.90E+01				2.9E+08		2.9E+08	1.0E+03 [b]		2.9E+08		
Furfural	98-01-1		7.34E-02		2.20E+01		7.5E+07		7.6E+07	1.0E+03 [b]	1.0E+03 [b]	8.0E+07		
HCH beta-	319-85-7			5.36E-05		1.70E-02	1.4E+09		1.4E+09			1.5E+09	1.0E+03 [b,c]	1.0E+03 [b,c]
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	1.0E+30	0.4 [a,b,c]	1.0E+30	0.4 [a,b,c]	0.4 [a,e]	1.0E+30	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		1.96E-01	1.53E-05		3.60E-04	1.0E+30	1.0E+03 [b,e]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [c,e]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	1.0E+30		1.0E+30	0.50 [a]		1.0E+30	0.50 [a]	0.50 [a]
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	1.0E+30	0.13 [a, c]	1.0E+30	0.13 [a,c]		1.0E+30	0.13 [a,c]	0.13 [a,c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	2.1E+09		2.1E+09	3.0 [a]		2.1E+09	3.0 [a]	3.0 [a]
Hexachlorophene	70-30-4		7.34E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Hexane n-	110-54-3		2.69E+02		6.60E-01		3.8E+08		3.9E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	4.0E+08		
Hydrogen Sulfide	7783-06-4		7.34E-02				2.9E+08		2.9E+08	1.0E+03 [b]		2.9E+08		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				3.0E+08		3.0E+08	1.0E+03 [b]		3.0E+08		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		1.0E+08		1.1E+08	1.0E+03 [b]	1.0E+03 [b]	1.1E+08	1.0E+03 [b]	
Kepone	143-50-0		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Lead	7439-92-1	1.50E-02						5.0 [a]						

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-9: Waste Pile Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Manganese	7439-96-5		1.15E+00							1.0E+03 [b]				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			0.20 [a,c]		0.20 [a,c]	0.20 [a,c]			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		6.2E+08		6.2E+08	1.0E+03 [b]	1.0E+03 [b]	6.4E+08		
Methanol	67-56-1		1.22E+01		1.54E+03		7.3E+07		7.5E+07	1.0E+03 [b]	1.0E+03 [b]	7.8E+07		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a,c]	1.0E+30	10 [a,c]		1.0E+30		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		7.1E+07		7.2E+07	1.0E+03 [b]	1.0E+03 [b]	7.4E+07		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		7.4E+07		7.6E+07	1.0E+03 [b]	1.0E+03 [b]	8.0E+07		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		7.1E+07		7.2E+07	200 [a]	200 [a]	7.6E+07		
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		7.9E+07		8.1E+07	1.0E+03 [b]	1.0E+03 [b]	8.3E+07		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		1.0E+30		1.0E+30	1.0E+03 [b,d]	1.0E+03 [b]	1.0E+30		
Methyl parathion	298-00-0		6.12E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]	1.0E+03 [e]	1.0E+30		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		7.6E+07		7.7E+07		1.0E+03 [b]	8.0E+07		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				3.8E+08		3.8E+08	1.0E+03 [b]		3.8E+08		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	3.7E+08	1.0E+03 [b]	3.7E+08	1.0E+03 [b]	1.0E+03 [b]	3.9E+08	1.0E+03 [b]	1.0E+03 [b]
Molybdenum	7439-98-7		1.22E-01							1.0E+03 [b]				
Naphthalene	91-20-3		4.90E-01		1.90E-02		5.1E+08		5.1E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	5.2E+08		
Nickel	7440-02-0		4.90E-01							1.0E+03 [b]				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		8.1E+07		8.4E+07	2.0 [a]	2.0 [a]	8.7E+07		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	7.4E+07		7.6E+07		1.0E+03 [b]	8.0E+07		1.0E+03 [b]
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	7.4E+07		7.5E+07			7.8E+07	50	1.0E+03 [b]
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	7.3E+07		7.5E+07	1.0E+03 [b]		7.8E+07	150	1.0E+03 [b]
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	1.2E+08		1.2E+08			1.3E+08	1.0E+03 [b]	1.0E+03 [b]
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	8.0E+07		8.0E+07			8.2E+07	1.0E+03 [b]	1.0E+03 [b]
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	3.2E+08		3.2E+08	1.0E+03 [b,c]		3.3E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	7.4E+07		7.5E+07			7.7E+07	340	1.0E+03 [b]
Nitrosopiperidine N-	100-75-4					8.70E-03	7.3E+07		7.3E+07			7.7E+07		1.0E+03 [b]
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	7.1E+07		7.2E+07			7.6E+07	1.0E+03 [b]	1.0E+03 [b]
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				3.1E+09		3.1E+09	1.0E+03 [b]		3.1E+09		
Parathion (ethyl)	56-38-2		1.47E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorobenzene	608-93-5		1.96E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	4.6E+08	100 [a]	4.6E+08	100 [a]		4.8E+08	100 [a]	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		7.9E+07		8.0E+07	1.0E+03 [b]	1.0E+03 [b]	8.4E+07		
Phenyl mercuric acetate	62-38-4		1.96E-03				2.9E+08		3.0E+08	1.0E+03 [b]		3.0E+08		
Phenylenediamine 1,3-	108-45-2		1.47E-01				2.9E+08		2.9E+08	1.0E+03 [b]		2.9E+08		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	8.4E+07		8.5E+07		1.0E+03 [b]	8.9E+07	1.0E+03 [b]	1.0E+03 [b]
Pyrene	129-00-0		7.34E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Pyridine	110-86-1		2.45E-02		1.40E+00		7.5E+07		7.5E+07	5.0 [a]	5.0 [a]	8.0E+07		
Safrole	94-59-7			5.36E-04			1.6E+10		1.6E+10			1.6E+10	1.0E+03 [b,c]	

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-9: Waste Pile Composite Liner LCTVs

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				Composite Liner							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Selenium	7782-49-2	5.00E-02	1.22E-01					1.0 [a]		1.0 [a]				
Silver	7440-22-4		1.22E-01							5.0 [a]				
Strychnine and salts	57-24-9		7.34E-03				1.1E+09		1.2E+09	1.0E+03 [b,c]		1.2E+09		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		3.0E+08	1.0E+03 [b, c]	3.0E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	3.1E+08		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachloroethane 1,1,1,2-	630-20-6		7.34E-01	3.71E-03		1.90E-03	1.0E+30	0.64 [e]	1.0E+30	1.0E+03 [b]		1.0E+30	0.64 [d]	0.64 [d]
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	1.0E+30	0.64 [e]	1.0E+30	1.0E+03 [b]	0.64 [e]	1.0E+30	0.64 [d]	0.64 [d]
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	1.3E+08	0.70 [a]	1.3E+08	0.70 [a]	0.70 [a]	1.3E+08	0.70 [a]	0.70 [a]
Tetrachlorophenol 2,3,4,6-	58-90-2		7.34E-01				1.3E+10		1.3E+10	1.0E+03 [b,c]		1.3E+10		
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					1.0E+03 [b]		1.0E+03 [b]				
Thiram [Thiuram]	137-26-8		1.22E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		1.7E+08	1.0E+03 [b, c]	1.7E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	1.7E+08		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	7.1E+07		7.3E+07			7.5E+07	1.0E+03 [b]	1.0E+03 [b]
Toluidine o-	95-53-4			4.02E-04		3.60E-02	8.3E+07		8.3E+07			8.6E+07	1.0E+03 [b]	1.0E+03 [b]
Toluidine p-	106-49-0			5.08E-04			3.9E+08		3.9E+08			3.9E+08	1.0E+03 [b,c]	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	1.0E+30	0.50 [a]	1.0E+30			1.0E+30	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	4.4E+08	1.0E+03 [b]	4.4E+08	1.0E+03 [b]		4.7E+08	1.0E+03 [b]	1.0E+03 [b]
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		3.7E+08		3.8E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	3.8E+08		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		1.6E+10	1.0E+03 [b, c]	1.6E+10	1.0E+03 [b,c]	1.0E+03 [b,c]	1.6E+10		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		1.0E+30	0.96 [d]	1.0E+30	0.96 [d]	0.96 [d]	1.0E+30	0.96 [e]	0.96 [e]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	9.79E-02	1.69E-03		1.10E-03	3.3E+09	0.96 [d]	3.3E+09	0.96 [d]	0.96 [e]	3.5E+09	0.96 [d]	0.96 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	1.1E+08	0.50 [a]	1.1E+08		0.50 [a]	1.2E+08	0.50 [a]	0.50 [a]
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		1.1E+08		1.1E+08	1.0E+03 [b]	1.0E+03 [b]	1.2E+08		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				1.0E+30		1.0E+30	400 [a]		1.0E+30		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	1.4E+08		1.4E+08			1.5E+08	2.0 [a]	2.0 [a]
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				7.5E+08	1.0 [a]	7.5E+08	1.0 [a]		7.5E+08		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				4.7E+08		4.7E+08	1.0E+03 [b,c]		4.7E+08		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	
Triethylamine	121-44-8				1.10E-01		8.2E+07		8.5E+07		1.0E+03 [b]	8.8E+07		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				3.5E+08		3.5E+08	1.0E+03 [b,c]		3.5E+08		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
Vanadium	7440-62-2		1.71E-01							1.0E+03 [b]				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		7.4E+07		7.5E+07	1.0E+03 [b]	1.0E+03 [b]	7.8E+07		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	7.6E+07	0.20 [a]	7.8E+07	0.20 [a]	0.20 [a]	8.1E+07	0.20 [a]	0.20 [a]
Xylene m-	108-38-3		4.90E+01		1.30E+00		4.6E+08		4.7E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	4.8E+08		
Xylene o-	95-47-6		4.90E+01		1.40E+00		4.1E+08		4.1E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	4.2E+08		
Xylene p-	106-42-3		4.90E+01		1.30E+00		5.0E+08		5.2E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	5.2E+08		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		4.8E+08	1.0E+03 [b, c]	4.8E+08	1.0E+03 [b,c]	1.0E+03 [b,c]	4.9E+08		
Zinc	7440-66-6		7.34E+00							1.0E+03 [b]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-10: Land Application Unit LCTVs (No-Liner)

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Acenaphthene	83-32-9		1.47E+00				8.5		8.5	13 [c]		8.8		
Acetaldehyde [Ethanal]	75-07-0				2.20E-01	4.10E-02	1.9		1.9		0.42	2.2		0.090
Acetone (2-propanone)	67-64-1		2.45E+00		1.50E+03		1.9		1.9	4.7	1.0E+03 [b]	2.2		
Acetonitrile (methyl cyanide)	75-05-8				3.10E+00		1.9		1.9		6.0	2.2		
Acetophenone	98-86-2		2.45E+00				1.9		1.9	4.7		2.2		
Acrolein	107-02-8		4.90E-01		3.30E-04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Acrylamide	79-06-1		4.90E-03	2.15E-05		5.10E+00	2.2		2.2	0.011		2.6	5.6E-05	13
Acrylic acid [propenoic acid]	79-10-7		1.22E+01		1.50E+01		1.9		1.9	23	29	2.2		
Acrylonitrile	107-13-1		2.45E-02	1.79E-04	3.80E-02	1.00E-03	2.0		2.0	8.2E-03 [d]	0.076	2.3	4.2E-05 [d]	2.3E-03
Aldrin	309-00-2		7.34E-04	5.68E-06		1.00E-05	7.6E+07		7.7E+07	1.0E+03 [b,c]		7.8E+07	440 [c]	780 [c]
Allyl alcohol	107-18-6		1.22E-01				1.9		1.9	0.23		2.2		
Aniline (benzeneamine)	62-53-3			1.69E-02	9.30E-01	2.20E+00	1.9		1.9		1.8	2.2	0.037	4.8
Anthracene	120-12-7		7.34E+00				21		22	160 [c]		22		
Antimony	7440-36-0	6.00E-03	9.79E-03					0.013		0.024				
Arsenic	7440-38-2	5.00E-02	7.34E-03	6.44E-05				0.13		0.026			5.6E-04	
Barium	7440-39-3	2.00E+00	1.71E+00					3.5		3.6				
Benz{a}anthracene	56-55-3			8.05E-05		1.80E-02	370		370			370	0.030 [c]	6.7 [c]
Benzene	71-43-2	5.00E-03		1.76E-03	1.90E-01	1.60E-03	2.0	9.9E-03	2.0		0.38	2.3	4.0E-03	3.7E-03
Benzidine	92-87-5		7.34E-02	4.20E-07		2.60E+00	1.9		1.9	0.14		2.2	9.2E-07	5.7
Benzo{a}pyrene	50-32-8	2.00E-04		1.32E-05		5.40E-03	9.2E+03	1.8 [c]	9.3E+03			9.3E+03	0.12 [c]	50 [c]
Benzo{b}fluoranthene	205-99-2			8.05E-05		6.30E-04	9.5E+03		9.5E+03			9.5E+03	0.77 [c]	6.0 [c]
Benzyl alcohol	100-51-6		7.34E+00				1.9		1.9	14		2.2		
Benzyl chloride	100-44-7			5.68E-04		5.20E-04	1.0E+30		1.0E+30	16 [e]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Beryllium	7440-41-7	4.00E-03	4.90E-02					5.0		9.8				
Bis(2-chloroethyl)ether	111-44-4			8.78E-05		1.10E-03	6.8		7.0		1.0E+03 [e]	8.2	7.2E-04	9.0E-03
Bis(2-chloroisopropyl)ether	39638-32-9		9.79E-01	1.38E-03		5.90E-03	2.2		2.2	2.2		2.5	3.4E-03	0.015
Bis(2-ethylhexyl)phthalate	117-81-7	6.00E-03	4.90E-01	6.90E-03	1.80E+02	2.80E+01	1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Bromodichloromethane	75-27-4	8.00E-02	4.90E-01	1.56E-03		8.00E-04	2.2	0.17	2.2	1.1		2.5	3.9E-03	2.0E-03
Bromomethane	74-83-9		3.43E-02		1.50E-02		6.9E+07		6.9E+07	69 [d]	1.0E+03 [b]	1.2E+08		
Butadiene 1, 3-	106-99-0				6.00E-02	4.00E-05	2.0		2.1		0.12	2.3		9.3E-05
Butanol n-	71-36-3		2.45E+00				1.9		1.9	4.7		2.2		
Butyl benzyl phthalate	85-68-7		4.90E+00				26		26	130 [c]		27		
Butyl-4,6-dinitrophenol,2-sec-(Dinoseb)	88-85-7	7.00E-03	2.45E-02				2.0	0.014	2.0	0.049		2.3		
Cadmium	7440-43-9	5.00E-03	1.22E-02					0.015		0.038				
Carbon disulfide	75-15-0		2.45E+00		1.90E+00		2.1		2.2	5.3	4.1	2.5		
Carbon tetrachloride	56-23-5	5.00E-03	1.71E-02	7.43E-04	2.10E-02	7.60E-04	2.8	0.014	2.8	0.048	0.059	3.2	2.4E-03	2.4E-03
Chlordane	57-74-9	2.00E-03	1.22E-02	2.76E-04	2.80E-02	1.50E-03	3.5E+04	0.030 [a]	3.6E+04	0.030 [a]	0.030 [a]	3.6E+04	0.030 [a]	0.030 [a]
Chloro-1,3-butadiene 2-(Chloroprene)	126-99-8		4.90E-01		2.20E-02		2.0		2.0	0.98	0.044	2.3		
Chloroaniline p-	106-47-8		9.79E-02				1.9		1.9	0.19		2.2		
Chlorobenzene	108-90-7	1.00E-01	4.90E-01		2.00E-01		2.4	0.24	2.4	1.2	0.48	2.7		
Chlorobenzilate	510-15-6		4.90E-01	3.58E-04		1.20E+00	39		39	19 [c]		40	0.014	48 [c]
Chlorodibromomethane	124-48-1	8.00E-02	4.90E-01	1.15E-03		7.50E-04	2.1	0.17	2.2	1.1		2.5	2.8E-03	1.9E-03
Chloroethane [Ethyl chloride]	75-00-3				3.00E+01		1.9		1.9		57	2.2		
Chloroform	67-66-3	8.00E-02	2.45E-01		3.30E-01		2.0	0.16	2.0	0.49	0.66	2.3		
Chloromethane	74-87-3			7.43E-03	2.60E-01	5.90E-03	1.9		1.9		0.50	2.2	0.016	0.013
Chlorophenol 2-	95-57-8		1.22E-01		9.70E-03		2.0		2.0	0.24	0.019	2.3		
Chloropropene 3- (Allyl Chloride)	107-05-1				3.00E-03	1.90E-03	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30		1.0E+03 [b]
Chromium (III) (Chromic Ion)	16065-83-1	1.00E-01	3.67E+01					43		260				
Chromium (VI)	18540-29-9	1.00E-01	7.34E-02					5.0 [a]		5.0 [a]				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-10: Land Application Unit LCTVs (No-Liner)

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Chrysene	218-01-9			8.05E-04		7.30E-03	370		370			370	0.30 [c]	2.7 [c]
Cobalt	7440-48-4		4.90E-01							5				
Copper	7440-50-8	1.30E+00						61						
Cresol m-	108-39-4		1.22E+00		1.20E+03		2.0		2.0	2.4	200 [a]	2.3		
Cresol o-	95-48-7		1.22E+00		8.80E+02		2.0		2.0	2.4	200 [a]	2.3		
Cresol p-	106-44-5		1.22E-01		1.30E+03		2.0		2.0	0.24	200 [a]	2.3		
Cresols	1319-77-3		1.22E+00		1.10E+03		2.1		2.1	2.5	1.0E+03 [b]	2.4		
Cumene	98-82-8		2.45E+00		1.30E+00		5.0		5.0	12	6.5	5.2		
Cyclohexanol	108-93-0		4.16E-04		3.90E-04		1.9		1.9	8.0E-04	7.5E-04	2.2		
Cyclohexanone	108-94-1		1.22E+02				2.0		2.0	240		2.3		
DDD	72-54-8			4.02E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDE	72-55-9			2.84E-04			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	
DDT p,p'-	50-29-3		1.22E-02	2.84E-04		8.80E-03	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diallate	2303-16-4			1.58E-03			6.8E+04		6.9E+04			7.1E+04	110 [c]	
Dibenz{a,h}anthracene	53-70-3			1.32E-05		3.80E-01	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Dibromo-3-chloropropane 1,2-	96-12-8	2.00E-04		6.90E-05	2.90E-03	7.90E-02	2.5	4.9E-04	2.5		7.2E-03	2.8	2.0E-04	0.22
Dichlorobenzene 1,2-	95-50-1	6.00E-01	2.20E+00		7.70E-01		3.4	2.0	3.4	7.4	2.6	3.7		
Dichlorobenzene 1,4-	106-46-7	7.50E-02		4.02E-03	3.00E+00	1.30E-03	3.3	0.25	3.3		7.5 [a]	3.6	0.014	4.6E-03
Dichlorobenzidine 3,3'-	91-94-1			2.15E-04		4.90E+00	4.4		4.4			4.7	1.0E-03	23 [c]
Dichlorodifluoromethane (Freon 12)	75-71-8		4.90E+00		5.80E-01		2.1		2.1	10	1.2	2.4		
Dichloroethane 1,1-	75-34-3		2.45E+00		1.60E+00	7.40E-03	2.1	8.5E-03 [e]	2.2	0.32 [d]	0.45 [d]	2.5	6.6E-04 [e]	0.012 [d]
Dichloroethane 1,2-	107-06-2	5.00E-03		1.06E-03	1.00E+01	6.30E-04	2.1	6.0E-03 [d]	2.1	0.22 [e]	0.32 [d]	2.4	4.7E-04 [d]	1.5E-03
Dichloroethylene cis-1,2-	156-59-2	7.00E-02	2.45E-01				1.9	0.14	2.0	0.48		2.3		
Dichloroethylene trans-1,2-	156-60-5	1.00E-01	4.90E-01				1.9	0.19	1.9	0.94		2.2		
Dichloroethylene 1,1-	75-35-4	7.00E-03	2.20E-01	1.61E-04	2.10E-01	2.20E-04	2.0	0.014	2.0	0.44	0.42	2.3	3.7E-04	5.0E-04
Dichlorophenol 2,4-	120-83-2		7.34E-02				2.3		2.3	0.17		2.6		
Dichlorophenoxyacetic acid 2,4-(2,4-D)	94-75-7	7.00E-02	2.45E-01				1.9	0.13	1.9	0.47		2.2		
Dichloropropane 1,2-	78-87-5	5.00E-03	2.20E+00	1.42E-03	1.40E-02		3.0	0.015	3.0	6.6	0.042	3.4	4.8E-03	
Dichloropropene 1,3-(mixture of isomers)	542-75-6		7.34E-01	9.66E-04	6.10E-02	2.90E-03	1.9		1.9	1.4	0.12	2.2	2.1E-03	6.4E-03
Dichloropropene cis-1,3-	10061-01-5		7.34E-01	9.66E-04	7.00E-02	3.30E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dichloropropene trans-1,3-	10061-02-6		7.34E-01	9.66E-04	7.50E-02	3.50E-03	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Dieldrin	60-57-1		1.22E-03	6.04E-06		1.00E-04	1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Diethyl phthalate	84-66-2		1.96E+01				2.7		2.7	53		3.1		
Diethylstilbestrol	56-53-1			2.05E-08			17		17			17	3.5E-07	
Dimethoate	60-51-5		4.90E-03				1.3E+03		1.3E+03	0.47 [d]	1.0E+03 [e]	1.6E+03		
Dimethoxybenzidine 3,3'-	119-90-4			6.90E-03			1.9		1.9			2.2	0.015	
Dimethyl formamide N,N- [DMF]	68-12-2		2.45E+00		7.10E+02		1.9		1.9	4.7	1.0E+03 [b]	2.2		
Dimethylbenz{a}anthracene 7,12-	57-97-6					3.00E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Dimethylbenzidine 3,3'-	119-93-7			1.05E-05			2.3		2.3			2.6	2.7E-05	
Dimethylphenol 2,4-	105-67-9		4.90E-01				2.1		2.1	1.1		2.4		
Di-n-butyl phthalate	84-74-2		2.45E+00				36		36	88 [c]		36		
Dinitrobenzene 1,3-	99-65-0		2.45E-03				1.9		1.9	4.7E-03		2.2		
Dinitrophenol 2,4-	51-28-5		4.90E-02				1.9		1.9	0.094		2.2		
Dinitrotoluene 2,4-	121-14-2		4.90E-02	1.42E-04		8.12E-01	1.9		1.9	0.094		2.2	3.1E-04	0.13 [a]
Dinitrotoluene 2,6-	606-20-2		2.45E-02	1.42E-04			1.9		1.9	0.047		2.2	3.1E-04	
Di-n-octyl phthalate	117-84-0		4.90E-01				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Dioxane 1,4-	123-91-1			8.78E-03	1.09E+03	1.80E-01	1.9		1.9		1.0E+03 [b]	2.2	0.019	0.39
Diphenylamine	122-39-4		6.12E-01				4.3		4.3	2.6		4.5		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-10: Land Application Unit LCTVs (No-Liner)

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Diphenylhydrazine 1, 2-	122-66-7			1.21E-04		2.00E-02	2.7		2.7			3.0	3.6E-04	0.060
Disulfoton	298-04-4		9.79E-04				1.3E+07		1.3E+07	1.0E+03 [b,c]		1.5E+07		
Endosulfan (Endosulfan I and II,mixture)	115-29-7		1.47E-01				6.1		6.1	0.90 [c]		6.4		
Endrin	72-20-8	2.00E-03	7.34E-03				2.0E+06	0.020 [a]	2.0E+06	0.020 [a]		2.0E+06		
Epichlorohydrin	106-89-8		4.90E-02	9.75E-03	6.00E-02	1.90E-01	1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Epoxybutane, 1, 2-	106-88-7				2.40E-01		1.9		1.9		0.46	2.2		
Ethoxyethanol 2-	110-80-5		9.79E+00		2.90E+03		1.9		1.9	19	1.0E+03 [b]	2.2		
Ethoxyethanol acetate 2-	111-15-9		7.34E+00		3.00E+02		1.9		1.9	14	570	2.2		
Ethyl acetate	141-78-6		2.20E+01				6.7		6.8	150		8.0		
Ethyl ether	60-29-7		4.90E+00				1.9		1.9	9.4		2.2		
Ethyl methacrylate	97-63-2		2.20E+00				3.4		3.4	7.6		4.0		
Ethyl methanesulfonate	62-50-0			3.30E-07			1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b]	
Ethylbenzene	100-41-4	7.00E-01	2.45E+00		3.30E+00	1.10E-02	3.1	2.2	3.2	7.7	10	3.4		0.038
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	5.00E-05		1.14E-06	9.80E-04	8.40E-05	31	1.5E-03	32		0.031	38	4.4E-05	3.2E-03
Ethylene glycol	107-21-1		4.90E+01		1.20E+04		1.9		1.9	94	1.0E+03 [b]	2.2		
Ethylene oxide	75-21-8			9.47E-05	4.10E-01	5.20E-04	1.0E+30		1.0E+30		1.0E+03 [b]	1.0E+30	1.0E+03 [b]	1.0E+03 [b]
Ethylene thiourea	96-45-7		1.96E-03	8.78E-04		1.60E+03	1.9		1.9	3.7E-03		2.2	1.9E-03	1.0E+03 [b]
Fluoranthene	206-44-0		9.79E-01				55		55	54 [c]		55		
Fluoride	16984-48-8	4.00E+00	2.90E+00					6.2		5.2				
Formaldehyde	50-00-0		4.90E+00		5.10E+01	1.50E+00	1.9		1.9	9.4	97	2.2		3.3
Formic acid	64-18-6		4.90E+01				1.9		1.9	94		2.2		
Furfural	98-01-1		7.34E-02		2.20E+01		1.9		1.9	0.14	42	2.2		
HCH beta-	319-85-7			5.36E-05		1.70E-02	5.2		5.3			5.5	2.9E-04	0.093
HCH (Lindane) gamma-	58-89-9	2.00E-04	7.34E-03	7.43E-05		1.60E-03	2.1E+07	0.4 [a,d]	2.1E+07	0.4 [a,d]	0.4 [a,e]	2.3E+07	0.4 [a,b,c]	0.4 [a,b,c]
HCH alpha-	319-84-6		1.96E-01	1.53E-05		3.60E-04	4.1E+07	1.5 [e]	4.1E+07	3.3 [c,d]	18 [c,e]	4.4E+07	680 [c]	1.0E+03 [b,c]
Heptachlor	76-44-8	4.00E-04	1.22E-02	2.15E-05		1.50E-05	1.0E+30	8.0E-03 [a]	1.0E+30	8.0E-03 [a]		1.0E+30	8.0E-03 [a]	8.0E-03 [a]
Heptachlor epoxide	1024-57-3	2.00E-04	3.18E-04	1.06E-05		2.80E-04	2.8E+15	1.0E+03 [b, c]	2.8E+15	1.0E+03 [b,c]		2.8E+15	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloro-1,3-butadiene	87-68-3		7.34E-03	1.24E-03		6.10E-04	39		39	0.29		39	0.049	0.024
Hexachlorobenzene	118-74-1	1.00E-03	1.96E-02	6.04E-05		3.60E-05	500	0.13 [a, c]	500	0.13 [a,c]		500	0.030 [c]	0.018 [c]
Hexachlorocyclopentadiene	77-47-4	5.00E-02	1.47E-01		6.90E-04		1.0E+30	1.0E+03 [b, c]	1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]	1.0E+30		
Hexachlorodibenzofurans [HxCDFs]	55684-94-1			6.19E-09		1.44E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachlorodibenzo-p-dioxins [HxCDDs]	34465-46-8			6.19E-09		1.43E-07	2.0E+14		2.0E+14			2.0E+14	1.0E+03 [b,c]	1.0E+03 [b,c]
Hexachloroethane	67-72-1		2.45E-02	6.90E-03		3.30E-03	6.9		6.9	0.17		7.2	0.050	0.024
Hexachlorophene	70-30-4		7.34E-03				130		130	0.95		130		
Hexane n-	110-54-3		2.69E+02		6.60E-01		3.0		3.0	820 [c]	2.0	3.3		
Hydrogen Sulfide	7783-06-4		7.34E-02				1.9		1.9	0.14		2.2		
Indeno{1,2,3-cd}pyrene	193-39-5			8.05E-05		3.80E-02	3.0E+09		3.1E+09			3.1E+09	1.0E+03 [b,c]	1.0E+03 [b,c]
Isobutyl alcohol	78-83-1		7.34E+00				1.9		1.9	14		2.2		
Isophorone	78-59-1		4.90E+00	1.02E-01	5.33E+02		2.0		2.0	9.8	1.0E+03 [b]	2.3	0.23	
Kepone	143-50-0		1.22E-02				19		19	0.23		19		
Lead	7439-92-1	1.50E-02						0.25						
Manganese	7439-96-5		1.15E+00							2.4				
Mercury	7439-97-6	2.00E-03	2.45E-03		7.00E-04			3.3E-03		4.4E-03	1.3E-03			
Methacrylonitrile	126-98-7		2.45E-03		6.50E-03		2.0		2.0	4.9E-03	0.013	2.3		
Methanol	67-56-1		1.22E+01		1.54E+03		1.9		1.9	23	1.0E+03 [b]	2.2		
Methoxychlor	72-43-5	4.00E-02	1.22E-01				1.0E+30	10 [a, c]	1.0E+30	1.0E+01 [a,c]		1.0E+30		
Methoxyethanol acetate 2-	110-49-6		4.90E-02		5.10E+02		1.9		1.9	0.094	970	2.2		
Methoxyethanol 2-	109-86-4		2.45E-02		4.40E+02		1.9		1.9	0.047	840	2.2		
Methyl ethyl ketone	78-93-3		1.47E+01		3.30E+01		1.9		1.9	28	63	2.2		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-10: Land Application Unit LCTVs (No-Liner)

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Methyl isobutyl ketone	108-10-1		1.96E+00		1.20E+00		1.9		1.9	3.7	2.3	2.2		
Methyl methacrylate	80-62-6		3.43E+01		5.30E+00		4.0		4.1	73 [d]	22	4.7		
Methyl parathion	298-00-0		6.12E-03				3.6E+05		3.7E+05	1.1 [d]	1.0E+03 [e]	3.8E+05		
Methyl tert-butyl ether [MTBE]	1634-04-4				1.70E+01		1.9		1.9		33	2.2		
Methylcholanthrene 3-	56-49-5					1.20E-03	1.0E+30		1.0E+30			1.0E+30		1.0E+03 [b,c]
Methylene bromide (Dibromomethane)	74-95-3		2.45E-01				1.9		1.9	0.47		2.2		
Methylene Chloride (Dichloromethane)	75-09-2	5.00E-03	1.47E+00	1.29E-02	1.00E+01	2.80E-02	1.9	9.7E-03	2.0	2.9	20	2.2	0.029	0.063
Molybdenum	7439-98-7		1.22E-01							0.22				
Naphthalene	91-20-3		4.90E-01		1.90E-02		3.5		3.5	1.7	0.066	3.8		
Nickel	7440-02-0		4.90E-01							1.2				
Nitrobenzene	98-95-3		1.22E-02		1.50E-01		1.9		1.9	0.023	0.29	2.2		
Nitropropane 2-	79-46-9				3.30E-01	2.30E-05	1.9		1.9		0.63	2.2		5.0E-05
Nitrosodiethylamine N-	55-18-5			6.44E-07		4.30E-05	1.9		1.9			2.2	1.4E-06	9.4E-05
Nitrosodimethylamine N-	62-75-9		1.96E-04	1.89E-06		4.00E-04	1.9		1.9	3.7E-04		2.2	4.1E-06	8.8E-04
Nitroso-di-n-butylamine N-	924-16-3			1.79E-05		2.00E-05	2.0		2.1			2.3	4.2E-05	4.7E-05
Nitroso-di-n-propylamine N-	621-64-7			1.38E-05		1.50E-03	1.9		1.9			2.2	3.0E-05	3.3E-03
Nitrosodiphenylamine N-	86-30-6		4.90E-01	1.97E-02		5.20E-01	2.8		2.8	1.4		3.0	0.060	1.6
Nitrosomethylethylamine N-	10595-95-6			4.39E-06		4.50E-03	1.9		1.9			2.2	9.6E-06	9.9E-03
Nitrosopiperidine N-	100-75-4					8.70E-03	1.9		1.9			2.2		0.019
Nitrosopyrrolidine N-	930-55-2			4.60E-05		9.20E-01	1.9		1.9			2.2	1.0E-04	2.0
Octamethyl pyrophosphoramide	152-16-9		4.90E-02				2.0		2.0	0.098		2.3		
Parathion (ethyl)	56-38-2		1.47E-01				3.1E+12		3.1E+12	1.0E+03 [b,c]		3.4E+12		
Pentachlorobenzene	608-93-5		1.96E-02				440		440	8.6 [c]		440		
Pentachlorodibenzofurans [PeCDFs]	30402-15-4			1.24E-09		6.29E-08	110		110			110	1.5E-07	7.1E-06
Pentachlorodibenzo-p-dioxins [PeCDDs]	36088-22-9			6.19E-10		6.00E-08	3.0E+10		3.1E+10			3.1E+10	20 [c]	1.0E+03 [b,c]
Pentachloronitrobenzene (PCNB)	82-68-8		7.34E-02	3.71E-04			48		48	3.6 [c]		48	0.018	
Pentachlorophenol	87-86-5	1.00E-03	7.34E-01	8.05E-04		5.40E+01	3.3	3.3E-03	3.3	2.4		3.6	2.9E-03	100 [a]
Phenol	108-95-2		1.47E+01		9.00E+02		1.9		1.9	28	1.0E+03 [b]	2.2		
Phenyl mercuric acetate	62-38-4		1.96E-03				1.9		1.9	3.7E-03		2.2		
Phenylenediamine 1,3-	108-45-2		1.47E-01				1.9		1.9	0.28		2.2		
Phorate	298-02-2		4.90E-03				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Phthalic anhydride	85-44-9		4.90E+01		1.30E+04		1.0E+30		1.0E+30	1.0E+03 [b]	1.0E+03 [b]	1.0E+30		
Polychlorinated biphenyls (Aroclors)	1336-36-3	5.00E-04	4.90E-04	2.41E-04		1.40E-04	1.1E+08	1.0E+03 [b, c]	1.1E+08	1.0E+03 [b,c]		1.1E+08	1.0E+03 [b,c]	1.0E+03 [b,c]
Pronamide	23950-58-5		1.84E+00				2.5		2.5	4.6		2.8		
Propylene oxide [1,2-Epoxypropane]	75-56-9			4.02E-04	4.90E-01	1.70E-02	1.9		1.9		0.94	2.2	8.8E-04	0.037
Pyrene	129-00-0		7.34E-01				110		110	79 [c]		110		
Pyridine	110-86-1		2.45E-02		1.40E+00		1.9		1.9	0.047	2.7	2.2		
Safrole	94-59-7			5.36E-04			2.2		2.2			2.4	1.3E-03	
Selenium	7782-49-2	5.00E-02	1.22E-01					0.078		0.21				
Silver	7440-22-4		1.22E-01							0.26				
Strychnine and salts	57-24-9		7.34E-03				2.0		2.0	0.015		2.3		
Styrene	100-42-5	1.00E-01	4.90E+00		3.60E+00		2.8	0.28	2.8	14	10.0	3.0		
Tetrachlorobenzene 1,2,4,5-	95-94-3		7.34E-03				25		26	0.19		26		
Tetrachlorodibenzofuran 2,3,7,8-	51207-31-9			6.19E-09		1.00E-07	1.0E+30		1.0E+30			1.0E+30	1.0E+03 [b,c]	1.0E+03 [b,c]
Tetrachlorodibenzo-p-dioxin 2,3,7,8-	1746-01-6	3.00E-08	2.45E-08	6.44E-10		2.20E-09	6.6E+06	0.20 [c]	6.6E+06	0.16 [c]		6.7E+06	4.3E-03 [c]	0.015 [c]
Tetrachloroethane 1,1,1,2-	630-20-6		0.734	3.71E-03		1.90E-03	3.3	0.013 [e]	3.3	2.5		3.7	0.014	7.1E-03
Tetrachloroethane 1,1,2,2-	79-34-5		1.47E+00	4.83E-04		5.00E-04	18	0.013 [e]	18	26	0.64 [e]	21	1.0E-02	0.010
Tetrachloroethylene	127-18-4	5.00E-03	2.45E-01	1.86E-03	9.40E-01	2.10E-02	2.1	0.011	2.1	0.52	0.70 [a]	2.4	4.5E-03	0.050
Tetrachlorophenol 2,3,4,6-	58-90-2		7.34E-01				2.1		2.2	1.6		2.4		

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter

Table F-10: Land Application Unit LCTVs (No-Liner)

Common Name	CAS#	MCL (mg/L)	HBN (mg/L)				No Liner/In-Situ Soil							
			Ingestion		Inhalation				Non-Carcinogenic Effect (NC)			Carcinogenic Effect (C)		
		Ingestion	NC	C	NC	C	Peak DAF	LCTV based on MCL (mg/L)	7-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation	30-yr Avg DAF	LCTV based on Ingestion	LCTV based on Inhalation
Tetraethyl dithiopyrophosphate (Sulfotep)	3689-24-5		1.22E-02				1.0E+30		1.0E+30	1.0E+03 [b,c]		1.0E+30		
Thallium	7440-28-0	2.00E-03	1.96E-03					3.2E-03		3.7E-03				
Thiram [Thiuram]	137-26-8		1.22E-01				2.7		2.7	0.33		3.0		
Toluene	108-88-3	1.00E+00	4.90E+00		1.30E+00		2.2	2.2	2.3	11	2.9	2.5		
Toluenediamine 2,4-	95-80-7			3.02E-05		7.50E+00	1.9		1.9			2.2	6.6E-05	16
Toluidine o-	95-53-4			4.02E-04		3.60E-02	1.9		1.9			2.2	8.8E-04	0.079
Toluidine p-	106-49-0			5.08E-04			1.9		1.9			2.2	1.1E-03	
Toxaphene (chlorinated camphenes)	8001-35-2	3.00E-03		8.78E-05		3.60E-03	6.7E+04	0.50 [a]	6.7E+04			6.8E+04	0.50 [a]	0.50 [a]
Tribromomethane (Bromoform)	75-25-2	8.00E-02	4.90E-01	1.22E-02		1.90E-02	2.1	0.17	2.1	1		2.4	0.030	0.046
Trichloro-1,2,2-trifluoro- ethane 1,1,2-	76-13-1		7.34E+02		9.50E+01		3.1		3.1	1.0E+03 [b,c]	290 [c]	3.3		
Trichlorobenzene 1,2,4-	120-82-1	7.00E-02	2.45E-01		8.30E-01		13	0.93	13	3.3	11	14		
Trichloroethane 1,1,1-	71-55-6	2.00E-01	6.85E+00		6.90E+00		150	0.019 [d]	150	0.61 [d]	0.58 [d]	170	5.1E-04 [e]	6.9E-04 [c]
Trichloroethane 1,1,2-	79-00-5	5.00E-03	9.79E-02	1.69E-03		1.10E-03	2.2	0.011	2.2	0.21	0.58 [e]	2.5	5.1E-04 [d]	6.9E-04 [d]
Trichloroethylene (1,1,2-Trichloroethylene)	79-01-6	5.00E-03		8.78E-03	1.90E+00	6.80E-03	2.0	0.010	2.1		0.50 [a]	2.3	0.021	0.016
Trichlorofluoromethane (Freon 11)	75-69-4		7.34E+00		2.10E+00		2.0		2.1	15	4.4	2.4		
Trichlorophenol 2,4,5-	95-95-4		2.45E+00				2.9		2.9	7.2		3.2		
Trichlorophenol 2,4,6-	88-06-2			8.78E-03		2.80E-01	2.1		2.1			2.4	0.021	0.68
Trichlorophenoxy)propionic acid 2-(2,4,5- (Silvex)	93-72-1	5.00E-02	1.96E-01				2.0	0.098	2.0	0.39		2.3		
Trichlorophenoxyacetic acid 2,4,5-	93-76-5		2.45E-01				1.9		1.9	0.47		2.2		
Trichloropropane 1,2,3-	96-18-4		1.47E-01	1.38E-05	3.40E-02		2.3		2.4	0.35	0.080	2.7	3.7E-05	
Triethylamine	121-44-8				1.10E-01		1.9		1.9		0.21	2.2		
Trinitrobenzene (1,3,5-Trinitrobenzene) sym-	99-35-4		7.34E-01				1.9		1.9	1.4		2.2		
Tris(2,3-dibromopropyl)phosphate	126-72-7			9.89E-06			29		29			31	3.1E-04	
Vanadium	7440-62-2		1.71E-01							34				
Vinyl acetate	108-05-4		2.45E+01		1.20E+00		1.9		1.9	47	2.3	2.2		
Vinyl chloride	75-01-4	2.00E-03	7.34E-02	1.34E-04	2.90E-01	2.50E-03	1.9	3.8E-03	1.9	0.14	0.20 [a]	2.2	2.9E-04	5.5E-03
Xylene m-	108-38-3		4.90E+01		1.30E+00		3.4		3.4	170 [c]	4.4	3.7		
Xylene o-	95-47-6		4.90E+01		1.40E+00		3.2		3.2	160	4.5	3.5		
Xylene p-	106-42-3		4.90E+01		1.30E+00		3.5		3.5	170	4.6	3.8		
Xylenes (total)	1330-20-7	1.00E+01	4.90E+01		1.40E+00		3.4	34	3.4	170	4.7	3.7		
Zinc	7440-66-6		7.34E+00							45				

KEY:
a - TC Rule cap
b - 1,000 mg/L cap
c - Exceeds solubility
d - Capped by daughter LCTV
e - Constituent has no RGC; LCTV from daughter