Handout for Stakeholder Meeting
NJ Criteria being Considered for Proposal
November 2024

Table 1

	Chemical	CAS Number	EPA 2015 Recommended Criteria		Current NJ Criteria		NJ Criteria Anticipated for Proposal		Rationale for Difference Between NJDEP and EPA
			Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	
1	Acenaphthene	83-32-9	70	90	670	990	68	83	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures
2	Acrolein	107-02-8	3	400	6.1	9.3	3	400	No difference
3	Acrylonitrile	107-13-1	0.061	7.0	0.051	0.25	0.061	7.0	No difference
4	Aldrin	309-00-2	0.00000077	0.00000077	0.000049	0.00005	0.00000077	0.00000077	No difference
5	alpha-BHC (alpha-HCH)	319-84-6	0.00036	0.00039	0.0026	0.0049	0.00036	0.00039	No difference
6	alpha-Endosulfan	959-98-8 (mixture: 115-29-7)	20	30	62	89	20	30	No difference
7	Anthracene	120-12-7	300	400	8300	40000	300	400	No difference
8	Benzene	71-43-2	0.58 - 2.1	16 - 58	0.15	3.3	0.11	3.1	NJDEP used a singular cancer slope factor as opposed to a range of cancer slope factors
9	Benzidine	92-87-5	0.00014	0.011	0.000086	0.00020	0.00014	0.011	No difference
10	Benz(a)anthracene	56-55-3	0.0012	0.0013	0.038	0.18	0.006	0.006	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
11	Benzo(a)pyrene	50-32-8	0.00012	0.00013	0.0038	0.018	0.0006	0.0006	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
12	Benzo(b)fluoranthene	205-99-2	0.0012	0.0013	0.038	0.18	0.006	0.006	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
13	Benzo(k)fluoranthene	207-08-9	0.012	0.013	0.38	1.8	0.06	0.06	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
14	beta-BHC (beta-HCH)	319-85-7	0.0080	0.014	0.0091	0.017	0.0080	0.014	No difference
15	beta-Endosulfan	33213-65-9	20	40	62	89	20	40	No difference
16	Bis(Chloromethyl) ether	542-88-1	0.00015	0.017	ND	ND	0.00015	0.017	No difference
17	Bis(2-Chloroethyl) ether	111-44-4	0.030	2.2	0.030	0.53	0.030	2.2	No difference
18	Bis(2-chloro-1-methylethyl) ether (previously Bis(2-chloroisopropyl) ether)	108-60-1	200	4000	1400	65000	220	3200	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
19	Bis(2-ethylhexyl) phthalate	117-81-7	0.32	0.37	1.2	2.2	0.32	0.37	No difference
20	Bromoform	75-25-2	7.0	120	4.3	140	7.0	120	No difference
21	Butyl benzyl phthalate	85-68-7	0.10	0.10	150	190	0.10	0.10	No difference
22	Carbon tetrachloride	56-23-5	0.4	5	0.33	2.3	0.33	3.6	NJDEP used a different cancer slope factor
23	Chlordane	57-74-9	0.00031	0.00032	0.00010	0.00011	0.000041	0.000041	NJDEP used a different cancer slope factor
24	Chlorobenzene	108-90-7	100	800	210	2500	37	270	NJDEP used a different reference dose
25	Chlorodibromomethane (Dibromochloromethane)	124-48-1	0.80	21	0.40	13	0.75	19	No difference, but note: NJDEP used the same cancer slope factor but with 2 significant figures (EPA may have typo with CSF = 0.040, as opposed to CSF = 0.043 in OW document cited by USEPA (2015)
26	Chloroform	67-66-3	60	2000	68	2100	65	2300	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
27	Chlorophenoxy herbicide (2,4-D)	94-75-7	1300	12000	ND	ND	60.	560	NJDEP used a different reference dose
28	Chlorophenoxy herbicide (2,4,5-TP)	93-72-1	100	400	ND	ND	130	380	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
29	Chrysene	218-01-9	0.12	0.13	3.8	18	0.6	0.6	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
30	Cyanide	57-12-5	4	400	140	140	4	500	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures; criteria rounded to 1 significant figure due to BCF.
31	Dibenzo(a,h)anthracene	53-70-3	0.00012	0.00013	0.0038	0.018	0.0006	0.0006	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
32	Dichlorobromomethane (Bromodichloromethane)	75-27-4	0.95	27	0.55	17	0.95	27	No difference
33	Dieldrin	60-57-1	0.0000012	0.0000012	0.000052	0.000054	0.0000012	0.0000012	No difference
34	Diethyl phthalate	84-66-2	600	600	17000	44000	530	590	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures
35	Dimethyl phthalate	131-11-3	2000	2000	ND	ND	500	500	NJDEP used a different reference dose
36	Di-n-butyl phthalate	84-74-2	20	30	2000	4500	30.	31	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
37	Dinitrophenols	25550-58-7	10	1000	ND	ND	10	300	NJDEP used a different bioaccumulation factor.
38	Endosulfan sulfate	1031-07-8	20	40	62	89	20	40	No difference
39	Endrin	72-20-8	0.03	0.03	0.059	0.060	0.028	0.028	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures
40	Endrin aldehyde	7421-93-4	1	1	0.059	0.060	0.89	1.0	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures
41	Ethylbenzene	100-41-4	68	130	530	2100	68	130	No difference
42	Fluoranthene	206-44-0	20	20	130	140	19	20.	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures

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			Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	
43	Fluorene	86-73-7	50	70	1100	5300	57	72	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
44	gamma-BHC (Lindane)	58-89-9	4.2	4.4	0.98	1.8	0.0014	0.0014	NJDEP used a cancer slope factor instead of a reference dose
45	Heptachlor	76-44-8	0.0000059	0.0000059	0.000079	0.000079	0.0000059	0.0000059	No difference
46	Heptachlor epoxide	1024-57-3	0.000032	0.000032	0.000039	0.000039	0.000032	0.000032	No difference
47	Hexachlorobenzene	118-74-1	0.000079	0.000079	0.00028	0.00029	0.000079	0.000079	No difference
48	Hexachlorobutadiene	87-68-3	0.01	0.01	0.44	18	0.01	0.01	No difference
49	Hexachlorocyclohexane - Technical	608-73-1	0.0066	0.010	ND	ND	0.0066	0.010	No difference
50	Hexachlorocyclopentadiene	77-47-4	4	4	40	1100	4	4	No difference
51	Hexachloroethane	67-72-1	0.1	0.1	1.4	3.3	0.1	0.1	No difference
52	Indeno(1,2,3-cd)pyrene	193-39-5	0.0012	0.0013	0.038	0.18	0.006	0.006	NJDEP used more recent cancer slope factor (for BaP) and applied ADAFs
53	Isophorone	78-59-1	34	1800	35	960	34	1800	No difference
54	Methoxychlor	72-43-5	0.02	0.02	40	ND	0.02	0.02	No difference
55	Methyl bromide	74-83-9	100	10000	47	1500	9.2	820	NJDEP used a different reference dose
56	Methylene chloride	75-09-2	20	1000	2.5	310	7	800	NJDEP applied ADAFs
57	Nitrobenzene	98-95-3	10	600	17	690	1.2	50.	NJDEP applied an additional uncertainty factor of 10 to the RfD to account for potential cancer risk
58	Pentachlorobenzene	608-93-5	0.1	0.1	1.4	1.5	0.11	0.11	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
59	Pentachlorophenol	87-86-5	0.03	0.04	0.27	3.0	0.03	0.04	No difference
60	Perfluorononanoic acid (PFNA)	375-95-1	NA	NA	NA	NA	0.005	0.002	NJDEP applied NJ-specific bioaccumulation factors.
61	Perfluorooctanoic acid (PFOA)	335-67-1	NA	NA	NA	NA	0.00000057 (5.7×10^{-7})	0.00000079 (7.9×10^{-7})	NJDEP applied NJ-specific bioaccumulation factors.
62	Perfluorooctane sulfonate (PFOS)	1763-23-1	NA	NA	NA	NA	0.000032	0.00014	NJDEP applied NJ-specific bioaccumulation factors.
63	Phenol	108-95-2	4000	300000	10000	860000	2000	140000	NJDEP used a different reference dose
64	Pyrene	129-00-00	20	30	830	4000	19	21	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures
65	Tetrachloroethylene	127-18-4	10	29	0.34	1.6	0.26	0.73	NJDEP used a different cancer slope factor
66	Toluene	108-88-3	57	520	1300	15000	470	4200	NJDEP used a different reference dose
67	Toxaphene	8001-35-2	0.00070	0.00071	0.00028	0.00028	0.00070	0.00071	No difference
68	Trichloroethylene	79-01-6	0.6	7	1.0	12	0.27	5.0	NJDEP applied ADAFs
69	Vinyl chloride	75-01-4	0.022	1.6	0.082	8.1	0.022	1.6	No difference
70	1,1,1-Trichloroethane	71-55-6	10000	200000	120	2600	1700	25000	NJDEP used a different reference dose
71	1,1,2,2-Tetrachloroethane	79-34-5	0.2	3	4.7	110	0.2	3	No difference
72	1,1,2-Trichloroethane	79-00-5	0.55	8.9	13	350	0.55	8.9	No difference
73	1,1-Dichloroethylene	75-35-4	300	20000	4.7	100	30.	1500	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures AND NJDEP applied an additional uncertainty factor of 10 to the RfD to account for potential cancer risk
74	1,2,4-Trichlorobenzene	120-82-1	0.071	0.076	21	42	0.071	0.076	No difference
75	1,2,4,5-Tetrachlorobenzene	95-94-3	0.03	0.03	0.97	1.1	0.033	0.034	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
76	1,2-Dichlorobenzene	95-50-1	1000	3000	2000	6200	130	350	Numerical difference due to NJDEP using the same toxicity factor but with 2 or more significant figures AND NJDEP applied an additional uncertainty factor to account for database deficiences
77	1,2-Dichloroethane	107-06-2	9.9	650	0.29	28	0.27	18	NJDEP used a different cancer slope factor
78	1,2-Dichloropropane	78-87-5	0.90	31	0.5	15	0.90	31	No difference
79	1,2-Diphenylhydrazine	122-66-7	0.03	0.2	0.036	0.20	0.03	0.2	No difference
80	1,2-trans-Dichloroethylene	156-60-5	100	4000	590	43000	110	3200	NJDEP used a different reference dose
81	1,3-Dichlorobenzene	541-73-1	7	10	2200	8300	2.4	5.0	NJDEP used the same principal study and critical effect as USEPA but applied an additional uncertainty factor of 3 to account for database deficiencies
82	1,3-Dichloropropene	542-75-6	0.27	12	0.34	21	0.3	10	NJDEP used a different cancer slope factor
83	1,4-Dichlorobenzene	106-46-7	300	900	550	2200	10.	30.	NJDEP used a different reference dose
84	2,4,5-Trichlorophenol	95-95-4	300	600	1800	3600	300	600	No difference
85	2,4,6-Trichlorophenol	88-06-2	1.5	2.8	0.58	1.0	1.5	2.8	No difference
86	2,4-Dichlorophenol	120-83-2	10	60	77	290	10	60	No difference
87	2,4-Dimethylphenol	105-67-9	100	3000	380	850	100	3000	No difference
88	2,4-Dinitrophenol	51-28-5	10	300	69	5300	10	300	No difference
89	2,4-Dinitrotoluene	121-14-2	0.049	1.7	0.11	3.4	0.049	1.7	No difference
90	1,4-Dioxane	123-91-1	NA	NA	ND	ND	0.33	NA	NA
91	2-Chloronaphthalene	91-58-7	800	1000	1000	1600	810	1300	Numerical difference due to NJDEP using same toxicity factor but with 2 or more significant figures.
92	2-Chlorophenol	95-57-8	30	800	81	150	30	800	No difference

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93	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol)	534-52-1	2	30	13	280	0.6	9	NJDEP used a different reference dose
94	3,3'-Dichlorobenzidine	91-94-1	0.049	0.15	0.021	0.028	0.049	0.15	No difference
95	3-Methyl-4-chlorophenol	59-50-7	500	2000	ND	ND	500	2000	No difference
96	4,4'-DDD	72-54-8	0.00012	0.00012	0.00031	0.00031	0.00012	0.00012	No difference
97	4,4'-DDE	72-55-9	0.000018	0.000018	0.00022	0.00022	0.000018	0.000018	No difference
98	4,4'-DDT	50-29-3	0.000030	0.000030	0.00022	0.00022	0.000030	0.000030	No difference

KEY:	
	No difference compared to USEPA 2015 recommended criterion.
	Less stringent compared to USEPA 2015 recommended criterion.
	More stringent compared to USEPA 2015 recommended criterion.
ND	No Data

Table 2

Chemical	CAS Number	2023 Stakeholder Meeting Criteria		2024 Updated Criteria	
		Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)	Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)
Bis(2-chloro-1-methylethyl) ether (previously Bis(2-chloroisopropyl) ether)	108-60-1	200	3200	**220**	3200
Chloroform	67-66-3	60	2000	**65**	**2300**
Chlorophenoxy herbicide (2,4,5-TP)	93-72-1	100	380	**130**	380
Cyanide	57-12-5	4	400	4	**500**
Di-n-butyl phthalate	84-74-2	20	30	**30.**	**31**
Fluorene	86-73-7	50	70	**57**	**72**
Pentachlorobenzene	608-93-5	0.1	0.1	**0.11**	**0.11**
1,2,4,5-Tetrachlorobenzene	95-94-3	0.03	0.03	**0.033**	**0.034**
2-Chloronaphthalene	91-58-7	800	1000	**810**	**1300**
Perfluorononanoic acid (PFNA)	375-95-1	0.013 (Water Only)	NA	**0.005**	**0.002**
Perfluorooctanoic acid (PFOA)	335-67-1	0.014 (Water Only)	NA	**0.00000057 (5.7×10^{-7})**	**0.00000079 (7.9×10^{-7})**
Perfluorooctane sulfonate (PFOS)	1763-23-1	0.013 (Water Only)	NA	**0.000032**	**0.00014**

KEY:	
X	Bolded red text indicates a revised numeric criterion.

Table 3

	Chemical	CAS Number	Reference Dose (RfD) (mg/kg/day)	Cancer Slope Factor (CSF) $(mg/kg/day)^{-1}$	Relative Source Contribution (RSC)	Chemical Specific Considerations	Carcinogen Group	Final BAF (or equivalent) L/kg	NJ Criteria Anticipated for Proposal	
									Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)
1	Acenaphthene	83-32-9	0.0583		0.2			510*	68	83
2	Acrolein	107-02-8	0.0005		0.2		D	0.0213	3	400
3	Acrylonitrile	107-13-1		0.54	NA		B1	0.0213	0.061	7.0
4	Aldrin	309-00-2		17	NA		B2	6118	0.00000077	0.00000077
5	Anthracene	120-12-7	0.3		0.2		D	610*	300	400
6	Benz(a)anthracene	56-55-3		0.1	NA	X	B2	3900*	0.006	0.006
7	Benzene	71-43-2		0.28	NA		A	0.09156	0.11	3.1
8	Benzidine	92-87-5		230	NA		A	0.03307	0.00014	0.011
9	Benzo(b)fluoranthene	205-99-2		0.1	NA	X	B2	3900*	0.006	0.006
10	Benzo(k)fluoranthene	207-08-9		0.01	NA	X	B2	3900*	0.06	0.06
11	Benzo(a)pyrene	50-32-8		1	NA	X	H	3900*	0.0006	0.0006
12	alpha-BHC (alpha-HCH)	319-84-6		6.3	NA		B2	32.61	0.00036	0.00039
13	beta-BHC (beta-HCH)	319-85-7		1.8	NA		C	3.13	0.0080	0.014
14	gamma-BHC (Lindane)	58-89-9		1.3	NA		S	42.51	0.0014	0.0014
15	Bis(2-chloroethyl) ether	111-44-4		1.1	NA		B2	0.03307	0.030	2.2
16	Bis(2-chloro-1-methylethyl) ether (previously Bis(2-chloroisopropyl) ether)	108-60-1	0.0358		0.2			0.1776	220	3200
17	Bis(chloromethyl) ether	542-88-1		220	NA		A	0.0213	0.00015	0.017
18	Bis(2-ethylhexyl) phthalate	117-81-7		0.014	NA		B2	710*	0.32	0.37
19	Bromodichloromethane (Dichlorobromomethane)	75-27-4		0.034	NA		L	0.0873	0.95	27
20	Bromoform	75-25-2		0.0045	NA		L	0.1519	7.0	120
21	Butylbenzyl phthalate	85-68-7		0.0019	NA		L	19000*	0.10	0.10
22	Carbon tetrachloride	56-23-5		0.091	NA		L	0.2453	0.33	3.6
23	Chlordane	57-74-9		2.7	NA		B2	724.7	0.000041	0.000041
24	Chlorobenzene	108-90-7	0.0065		0.2	Y	D	0.382	37	270
25	Chloroform	67-66-3	0.010		0.2		B2	0.0699	65	2300
26	Chlorophenoxy herbicide (2,4-D)	94-75-7	0.010		0.2		D	13*	60	560
27	Chlorophenoxy herbicide (2,4,5-TP)	93-72-1	0.008		0.8		D	58*	130	380
28	2-Chloronaphthalene	91-58-7	0.083		0.8			4.17	810	1300
29	2-Chlorophenol	95-57-8	0.005		0.2			0.0977	30	800
30	Chrysene	218-01-9		0.001	NA	X	B2	3900*	0.6	0.6
31	Cyanide	57-12-5	0.00063		0.2		I	1**	4	500
32	4,4'-DDD	72-54-8		0.24	NA		B2	2679	0.00012	0.00012

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33	4,4'-DDE	72-55-9		0.167	NA		L	27322	0.000018	0.000018
34	4,4'-DDT	50-29-3		0.34	NA		B2	7940	0.000030	0.000030
35	Dibenzo(a,h)anthracene	53-70-3		1	NA	X	B2	3900*	0.0006	0.0006
36	Dibromochloromethane (Chlorodibromomethane)	124-48-1		0.043	NA		S	0.09643	0.75	19
37	Di-n-butyl phthalate	84-74-2	0.13		0.2		D	2900*	30.	31
38	1,2-Dichlorobenzene	95-50-1	0.031		0.2		D	1.424	130	350
39	1,3-Dichlorobenzene	541-73-1	0.00070		0.2		D	2.237	2.4	5.0
40	1,4-Dichlorobenzene	106-46-7	0.0023		0.2	Z	C	1.209	10	30
41	3,3'-Dichlorobenzidine	91-94-1		0.45	NA		B2	1.202	0.049	0.15
42	1,2-Dichloroethane	107-06-2		0.12	NA		B2	0.0373	0.27	18
43	1,1-Dichloroethylene	75-35-4	0.0046		0.2	Z	S	0.0491	30	1500
44	1,2-trans-Dichloroethylene	156-60-5	0.017		0.2		I	0.0852	110	3200
45	2,4-Dichlorophenol	120-83-2	0.003		0.2			0.8416	10	60
46	1,2-Dichloropropane	78-87-5		0.036	NA		B2	0.072	0.90	31
47	1,3-Dichloropropene	542-75-6		0.1	NA		B2	0.056	0.3	10
48	Dieldrin	60-57-1		16	NA		B2	4003	0.0000012	0.0000012
49	Diethyl phthalate	84-66-2	0.75		0.2		D	920*	530	590
50	2,4-Dimethylphenol	105-67-9	0.02		0.2			0.1255	100	3000
51	Dimethyl phthalate	131-11-3	3		0.2		D	4000*	500	500
52	4,6-Dinitro-o-cresol	534-52-1	0.0001		0.2		I	0.1792	0.6	9
53	Dinitrophenols	25550-58-7	0.002		0.2			4.4	10	300
54	2,4-Dinitrophenol	51-28-5	0.002		0.2			4.4*	10	300
55	2,4-Dinitrotoluene	121-14-2		0.667	NA		L	0.0713	0.049	1.7
56	1,4-Dioxane	123-91-1		0.1					0.33	NA
57	1,2-Diphenylhydrazine	122-66-7		0.8	NA		B2	0.481	0.03	0.2
58	alpha-Endosulfan	959-98-8	0.006		0.2			3.556	20	30
59	beta-Endosulfan	33213-65-9	0.006		0.2			2.217	20	40
60	Endosulfan sulfate	1031-07-8	0.006		0.2			2.415	20	40
61	Endrin	72-20-8	0.00025		0.8		D	579.2	0.028	0.028
62	Endrin aldehyde	7421-93-4	0.00025		0.8			15.59	0.89	1.0
63	Ethylbenzene	100-41-4	0.022		0.2		D	2.78	68	130
64	Fluoranthene	206-44-0	0.042		0.2		D	1500*	19	20
65	Fluorene	86-73-7	0.042		0.2		D	9.24	57	72
66	Heptachlor	76-44-8		4.1	NA		B2	3322	0.0000059	0.0000059

Table 3

	Chemical	CAS Number	Reference Dose (RfD) (mg/kg/day)	Cancer Slope Factor (CSF) $(mg/kg/day)^{-1}$	Relative Source Contribution (RSC)	Chemical Specific Considerations	Carcinogen Group	Final BAF (or equivalent) L/kg	NJ Criteria Anticipated for Proposal	
									Water + Organism (Fresh Water) (µg/L)	Organism Only (Saline) (µg/L)
67	Heptachlor epoxide	1024-57-3		5.5	NA		B2	450	0.000032	0.000032
68	Hexachlorobenzene	118-74-1		1.02	NA		B2	991	0.000079	0.000079
69	Hexachlorobutadiene	87-68-3		0.04	NA		L	204.5	0.01	0.01
70	Hexachlorocyclohexane - Technical	608-73-1		1.8	NA		B2	4.38	0.0066	0.010
71	Hexachlorocyclopentadiene	77-47-4	0.006		0.2		E	24.24	4	4
72	Hexachloroethane	67-72-1		0.04	NA		L	14.59	0.1	0.1
73	Indeno(1,2,3-cd)pyrene	193-39-5		0.1	NA	X	B2	3900*	0.006	0.006
74	Isophorone	78-59-1		0.00095	NA		C	0.0456	34	1800
75	Methoxychlor	72-43-5	0.00002		0.8		D	74.4	0.02	0.02
76	Methyl Bromide	74-83-9	0.0014		0.2		D	0.0274	9.2	820
77	3-Methyl-4-chlorophenol	59-50-7	0.1		0.2		D	0.681	500	2000
78	Methylene chloride	75-09-2		0.002	NA	X	L	0.00059	7	800
79	Nitrobenzene	98-95-3	0.00018		0.2	Z	L	0.0574	1.2	50
80	Pentachlorobenzene	608-93-5	0.00083		0.2		D	116.3	0.11	0.11
81	Pentachlorophenol	87-86-5		0.4	NA		L	5.48	0.03	0.04
82	Perfluorononanoic acid (PFNA)	375-95-1	0.000003		0.2			295 FW; 949 SW	0.005	0.002
83	Perfluorooctanoic acid (PFOA)	335-67-1		29300	NA		S	109 FW; 158 SW	0.00000057 (5.7×10^{-7})	0.00000079 (7.9×10^{-7})
84	Perfluorooctane sulfonate (PFOS)	1763-23-1		39.5	NA		S	2770 FW; 681 SW	0.000032	0.00014
85	Phenol	108-95-2	0.31		0.2		D	0.0357	2000	140000
86	Pyrene	129-00-0	0.025		0.2		D	860*	19	21
87	1,2,4,5-Tetrachlorobenzene	95-94-3	0.00034		0.2			161.8	0.033	0.034
88	1,1,2,2-Tetrachloroethane	79-34-5		0.2	NA		L	0.1498	0.2	3
89	Tetrachloroethylene	127-18-4		0.082	NA		L	1.328	0.26	0.73
90	Toluene	108-88-3	0.079		0.2		I	0.299	470	4200
91	Toxaphene	8001-35-2		1.1	NA		B2	101.8	0.00070	0.00071
92	1,2,4-Trichlorobenzene	120-82-1		0.029	NA		L	36.37	0.071	0.076
93	1,1,1-Trichloroethane	71-55-6	0.28		0.2		I	0.1808	1700	25000
94	1,1,2-Trichloroethane	79-00-5		0.057	NA		S	0.1581	0.55	8.9
95	Trichloroethylene	79-01-6		0.046	NA	X	H	0.00439	0.27	5.0
96	2,4,5-Trichlorophenol	95-95-4	0.1		0.2			2.78	300	600
97	2,4,6-Trichlorophenol	88-06-2		0.011	NA		L	2.597	1.5	2.8
98	Vinyl chloride	75-01-4		1.5	NA		H	0.0331	0.022	1.6

KEY:

*Consistent with USEPA (2015) "This bioaccumulation factor was estimated from laboratory-measured bioconcentration factors; USEPA multiplied this bioaccumulation factor by the overall national recommended fish consumption rate of 22.0 g/d (see USEPA's 2014 Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010)) to calculate the 2015 human health criteria."	**Consistent with USEPA (2015) this bioconcentration factor was multiplied by the overall national recommended fish consumption rate of 22.0 g/d (see USEPA's 2014 Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010)) to calculate the 2015 human health criteria.	NA - Not applicable

1986 USEPA Cancer Classifications:	**2005 USEPA Cancer Descriptors:**	
A - Human carcinogen	H - Carcinogenic to humans	NC - No criteria
B1–B2 - Probable human carcinogen	I - Inadequate information to assess carcinogenic potential	X - Age-dependent adjustment factors (ADAFs) were applied to carcinogens with a mutagenic mode of action
C - Possible human carcinogen	L - Likely to be carcinogenic to humans	Y - Additional modifying factor of 3 applied to the RfD
D - Not classifiable as to human carcinogenicity	S - Suggestive evidence of carcinogenic potential	Z - RfD includes uncertainty factor of 10 for potential carcinogenicity
E - Evidence of noncarcinogenicity for human		