Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
ACENAPHTHENE	83-32-9	0.06	I							4900		3.8	1,5,6				279	1.24
ACENAPHTHYLENE	208-96-8	0.06	S							4500		16.1	5,6,7				280	2.11
ACEPHATE	30560-19-1	0.004	I	0.0087	I					3		818000	6				340	
ACETALDEHYDE	75-07-0					0.009	I	0.0000022	I	4.1	X	1000000	1	13100	15100	X	20	
ACETONE	67-64-1	0.9	I			31	D			0.31	X	1000000	1	13100	15000	X	56	18.07
ACETONITRILE	75-05-8					0.06	I			0.5	X	1000000	1	13100	15000	X	82	4.50
ACETOPHENONE	98-86-2	0.1	I							170		5500	1			X	203	
ACETYLAMINO-FLUORENE, 2- (2AAF)	53-96-3			3.8	C			0.0013	C	1600		10.13	7				303	0.69
ACROLEIN	107-02-8	0.0005	I			0.00002	I			0.56	X	208000	1,2,4	13100	15100	X	53	4.50
ACRYLAMIDE	79-06-1	**[0.0002] 0.002**	I	**[4.5] 0.5**	I	**0.006**	**I**	**[0.0013] 0.0001**	I	25	X	2151000	4	13000	15000		193	
ACRYLIC ACID	79-10-7	0.5	I			0.001	I			29	X	1000000	2	13000	14900	X	141	1.39
ACRYLONITRILE	107-13-1	0.04	D	0.54	I	0.002	I	0.000068	I	11	X	73500	1	13100	15100	X	77	5.50
ALACHLOR	15972-60-8	0.01	I	0.056	C					110		140	2				378	
ALDICARB	116-06-3	0.001	I							22		6000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001	I							10		8000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001	**[I] M**							0.22		330000	5				307	
ALDRIN	309-00-2	0.00003	I	17	I			0.0049	I	48000		0.02	4,5,6				330	0.22
ALLYL ALCOHOL	107-18-6	0.005	I			**[0.0003] 0.0001**	**[P] X**			3.2	X	1000000	2	13100	15000	X	97	18.07
AMETRYN	834-12-8	0.009	I							389		185	5				345	
AMINOBIPHENYL, 4-	92-67-1			21	C			0.006	C	110		1200	5				302	18.07
AMITROLE	61-82-5			0.94	C			0.00027	C	120		280000	4				258	0.69
AMMONIA	7664-41-7	0.97	H			0.1	I			3	X	310000	2,5,7	13100	15000	X	-33	
AMMONIUM SULFAMATE	7773-06-0	0.2	I							3		2160000	10				603	
ANILINE	62-53-3	0.007	P	0.0057	I	0.001	I	0.0000016	C	190	X	33800	1	13000	14900	X	184	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
ANTHRACENE	120-12-7	0.3	I							21000		0.066	1,5,6,7,8,9				340	0.28
ATRAZINE	1912-24-9	0.035	I	0.23	C					130		70	2,4,5				313	
AZINPHOS-METHYL (GUTHION)	86-50-0	0.003	D			0.01	D					31.5	1, 2				421	
BAYGON (PROPOXUR)	114-26-1	0.004	I							31		2000	2,4,5				decomp.	4.50
BENOMYL	17804-35-2	0.05	I							407.4 1,900		2	5				520	
BENTAZON	25057-89-0	0.03	I							13		500	2				415	
BENZENE	71-43-2	0.004	I	0.055	I	0.03	I	0.0000078	I	58	X	1780.5	1,2,3,4	13100	15000	X	81	0.35
BENZIDINE	92-87-5	0.003	I	230	I			0.067	I	530,000		520	1,2,4				400	15.81
BENZO[A]ANTHRACENE	56-55-3			**[0.73] 0.7**	**[N] X**			0.00011	C	350000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8			7.3	I			0.0011	C	910000		0.0038	1,5,6				495	0.24
BENZO[B]FLUORANTHENE	205-99-2			0.73	N			0.00011	C	550000		0.0012	5,6,7				357	0.21
BENZO[GHI]PERYLENE	191-24-2	0.06	S							2800000		0.00026	1,5,6				500	0.19
BENZO[K]FLUORANTHENE	207-08-9			0.073	N			0.00011	C	4400000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	4	I							32		2700	2,3,4,5				249	
BENZOTRICHLORIDE	98-07-7			13	I					920		53	1,5,13			X	221	121413.60
BENZYL ALCOHOL	100-51-6	**[0.5] 0.1**	P							100		40000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002	P	0.17	I	0.001	P	0.000049	C	190	X	493	1	13000	15000	X	179	20.90
BETA PROPIOLACTONE	57-57-8			14	C			0.004	C	4	X	370000	2	13100	15000	X	162	0.01
BHC, ALPHA	319-84-6	0.008	D	6.3	I			0.0018	I	1800		1.7	4,5,6,7				288	0.94
BHC, BETA-				1.8	I			0.00053	I	2300		0.1	6				304	1.02
BHC, GAMMA (LINDANE)	58-89-9	0.0003	I	1.1	C			0.00031	C	1400			4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	0.05	I	**0.008**	**X**	**0.0004**	**X**			1,700		7.2	1				255	18.07
BIS(2-CHLORO ETHOXY)METHANE	111-91-1	0.003	P							61		100500	4,6,7,9,10,11			X	218	

[1] 319-85-7

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
BIS(2-CHLOROETHYL)ETHER	111-44-4			1.1	I			0.00033	I	76	X	10200	1,4,5	13000	14900	X	179	0.69
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	0.04	I	0.07	H			0.00001	H	62	X	1700	5	13000	14900	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1			220	I			0.062	I	16	X	22000	6	13100	15100	X	105	57270.57
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.02	I	0.014	I			0.0000024	C	87000		0.285	4,5,6			X	384	0.65
BISPHENOL A	80-05-7	0.05	I							1,500		120	4				220	0.69
BROMACIL	314-40-9	0.1	M							58		815	2				421	
BROMOCHLOROMETHANE	74-97-5	0.01	M			**0.04**	**X**			27	X	16700	4	13100	15000	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02	I	0.062	I			0.000037	C	93	X	4500	6	13100	15000	X	87	
BROMOMETHANE	74-83-9	0.0014	I			0.005	I			170	X	17500	2	13100	15000	X	4	6.66
BROMOXYNIL	1689-84-5	0.02	I							300		130	2				329	
BROMOXYNIL OCTANOATE	1689-99-2	0.02	I							18,000		0.08	12				414	5.75
BUTADIENE, 1,3-	106-99-0			3.4	C	0.002	I	0.00003	I	120	X	735	1	13200	15000	X	-4.5	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1	I							3.2	X	74000	1	13000	14900	X	118	4.68
BUTYLATE	2008-41-5	0.05	I							540	X	45	2	13200	15200	X	138	
BUTYLBENZENE, N-	104-51-8	**[0.04] 0.05**	**[N] P**							2,500	X	15	1,6,7	13100	15100	X	183	
BUTYLBENZENE, SEC-	135-98-8	**[0.04] 0.1**	**[N] X**							890	X	17	1,6,7	13100	15000	X	174	
BUTYLBENZENE, TERT-	98-06-6	**0.04 0.1**	**[N] X**							680	X	30	1,6,7	13100	15000	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2	I	0.0019	P					34000		2.69	4,5,6			X	370	1.39
CAPTAN	133-06-2	0.13	I	0.0023	C			0.00000066	C	200		0.5	4				259	589.39

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor	N = EPA NCEA Provisional Values
D = ATSDR Minimal Risk Level	P = EPA Provisional Peer-Reviewed Toxicity Value
H = Health Effects Assessment Summary Table (HEAST)	S = surrogate
I = Integrated Risk information System (IRIS)	T = TEF
M = EPA Drinking Water Regulations and Health Advisories	TE = TERA ITER Peer-Reviewed Value
	X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
CARBARYL	63-25-2	0.1	I							190		120	2,4,5				315	4.22
CARBAZOLE	86-74-8			0.02	H							1.2	1,5,6				355	
CARBOFURAN	1563-66-2	0.005	I							43		700	2				311	
CARBON DISULFIDE	75-15-0	0.1	I			0.7	I			300	X	2100	1,2,3	13100	15100	X	46	
CARBON TETRACHLORIDE	56-23-5	**[0.0007] 0.004**	I	**[0.13] 0.07**	I	**[0.19] 0.1**	**[D] I**	**[0.000015] 0.000006**	I	2,500 160	X	795	1,2,3	13100	15000	X	77	0.07
CARBOXIN	5234-68-4	0.1	I							260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015	I							20		700	2				210	
CHLORDANE	57-74-9	0.0005	I	0.35	I	0.0007	I	0.0001	I	98000		0.056	4,5,7				351	0.09
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3					50	I			22	X	1400	4	13100	15000	X	-9	
CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE)	107-05-1			0.021	C	0.001	I	0.000006	C	48	X	3300	1,3,5,7,10	13100	15000	X	45	18.07
CHLOROACETALDEHYDE	**107-20-0**			**0.3**	**X**					**3.2**	**X**	**1000000**	**9**	**13000**	**14900**	**X**	**85**	
CHLOROACETOPHENONE, 2-	532-27-4					0.00003	I			76		1100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004	I	0.2	P					460		3900	1				232	
CHLOROBENZENE	108-90-7	0.02	I			0.05	P			200	X	490	3	13100	15000	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02	I	0.11	C			0.000031	C	2600		13	4				415	3.60
CHLOROBUTANE, 1-	109-69-3	**[0.4] 0.04**	P							580	X	680	1,2,3,4	13200	15000	X	79	
CHLORODIBROMOMETHANE	124-48-1	0.02	I	0.084	I			0.000027	C	83	X	4200	4,6,7,9	13100	15100	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6					50	I			59	X	2899	4	13200	15000	X	-41	
CHLOROETHANE	75-00-3	0.4	N	0.0029	N	10	I			42	X	5700	1	13100	15000	X	12	4.50
CHLOROFORM	67-66-3	0.01	I			0.098	D	0.000023	I	56	X	8000	1,2,3	13100	15000	X	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08	I							8500		11.7	1				256	
CHLORONITROBENZENE, P-	100-00-5	0.001	P	0.0063	P	0.0006	P			480		220	1				242	
CHLOROPHENOL, 2-	95-57-8	0.005	I							400	X	24000	1,3,4	12900	14900	X	175	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
CHLOROPRENE	126-99-8	0.02	H			**[0.007]** **0.02**	**[H]** **I**	**0.003**	**I**	50	X	1736	9	13100	15000	X	59	0.69
CHLOROPROPANE, 2-	75-29-6					0.1	H			260	X	3100	1,3,5	13200	15000	X	47	
CHLOROTHALONIL	1897-45-6	0.015	I	0.0031	C			0.00000089	C	980		0.6	2				350	
CHLOROTOLUENE, O-	95-49-8	0.02	I							760	X	422	**[14, 15]** **1,4,5**	13100	15000	X	159	
CHLOROTOLUENE, P-	106-43-4	**[0.07]** **0.02**	**[P]** **X**							375	X	106	12	13000	14900	X	162	
CHLORPYRIFOS	2921-88-2	**[0.003]** **0.001**	**[I]** **D**							4600		1.12	2,4,6,7				377	
CHLORSULFURON	64902-72-3	0.05	I							11		192	2,5,6,8,9				531	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	0.01	I							6,500		0.5	2,5,7				360	1.37
CHRYSENE	218-01-9			0.0073	N			0.000011	C	490000		0.0019	1				448	0.13
CRESOL(S)	1319-77-3	0.005	S			0.06	C			25	X	20000	2	13000	14900	X	139	5.16
CRESOL, DINITRO-O-, 4,6-	534-52-1	0.0001	P							257		150	4				312	6.02
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	0.05	I							22	X	2500	3,5,6	13000	14900		191	18.07
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	0.05	I							35		2500	2			X	202	5.16
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	0.005	H							49		22000	6				202	9.03
CRESOL, P-CHLORO-M-	59-50-7	**[0.005]** **0.1**	**[S]** **X**							780		3846	2				235	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
CROTONALDEHYDE	4170-30-3			1.9	S					5.6	X	180000	3	13000	14900	X	104	18.07
CROTONALDEHYDE, TRANS-	123-73-9	**0.001**	**P**	1.9	H					6.1	X	156000	1	13100	15100	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1	I			0.4	I			2800	X	50	1,5,6	13100	15100	X	152	15.81
CYANAZINE	21725-46-2	0.002	M	0.84	H					199		171	2,5				369	
CYCLOHEXANE	110-82-7					6	I			479	X	55	1,2,4,5,6	13100	15100	X	81	
CYCLOHEXANONE	108-94-1	5	I			**0.7**	**P**			66	X	36500	1,2,4,5	13000	14900	X	157	
CYFLUTHRIN	68359-37-5	0.025	I							130,000		0.001	2				448	
CYROMAZINE	66215-27-8	0.0075	I							1,200		11000	12				222	
DDD, 4,4'-	72-54-8	0.002	P	0.24	I			0.000069	C	44000		0.16	5,6,7				350	0.02
DDE, 4,4'-	72-55-9			0.34	I			0.000097	C	87000		0.04	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005	I	0.34	I			0.000097	I	240000		0.0055	5,6,7				260	0.02
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	0.6	I	0.0012	I					47,000,000			5			X	214	4.50
DIALLATE	2303-16-4			0.061	H					190		40	2,4,6,8			X	328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7			3.8	C			0.0011	C	36		7470	4				292	0.69
DIAZINON	333-41-5	0.0007	D							500		50	2,4,6,8			X	306	
DIBENZO[A,H]ANTHRACENE	53-70-3			7.3	N			0.0012	C	1800000	200	0.0006	1,5,6				524	0.13
DIBENZOFURAN	132-64-9	0.001	**[P]X**							10233		4.48	1,6,7,9				287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0002	P	0.8	P	0.0002	I	0.006	P	140	X	1000	4	13000	15000	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01	I							1,600		20	1				220	
DIBROMOETHANE, 1,2-(ETHYLENE DIBROMIDE)	106-93-4	0.009	I	2	I	0.009	I	0.0006	I	54	X	4150	1,2,3,5	13100	15100	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01	H			**0.004**	**X**			110	X	11400	1	13100	15100	X	96	4.50

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
DIBUTYL PHTHALATE, N-	84-74-2	0.1	I							1600		400	1,2,3			X	340	11.00
DICAMBA	1918-00-9	0.03	I							0.27		5600	4,5,6,8,10				329	
DICHLOROACETIC ACID	76-43-6	0.004	I	**0.05**	**I**					8.1	X	1000000	1	12900	14900	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0							0.0042	P	180	X	850	9	13100	15000	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6							0.0042	S	215	X	850	9	12900	14800	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09	I			0.2	H			350	X	147	1,4,5,6,7	13100	15100	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	0.003	N							360	X	106	1	13100	15100	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	0.07	D	0.0054	C	0.8	I	0.000011	C	510	X	82.9	1	12900	14900		174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1			0.45	I			0.00034	C	22000		3.11	4,5,6				368	0.69
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	0.2	I			**[0.2] 0.1**	**[H] X**			360	X	280	1	13200	15000	X	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	0.2	P	0.0057	C	0.5	H	0.0000016	C	52	X	5000	2	13100	15000	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	**[0.02] 0.006**	**[P] X**	0.091	I	**[2.4] 0.007**	**[D] P**	0.000026	I	38	X	8412	1,2,3,4	13100	15000	X	83	0.07
DICHLOROETHYLENE, 1,1-	75-35-4	0.05	I			0.2	I			65	X	2500	1,4,5	13100	15000	X	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	**[0.01] 0.002**	**[P] I**							49	X	3500	1	13100	15000	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02	I			0.06	P			47	X	6300	1	13100	15000	X	48	0.01
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	**[0.06] 0.006**	I	**[0.0075] 0.002**	I	**[1] 0.6**	**[D] I**	**[0.00000047] 0.00000001**	I	16	X	20000	1,2,3	13100	15000	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003	I							160		4500	1				210	5.88
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	0.01	I							59		677	4,5,6,7,10				215	1.39

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
DICHLOROPROPANE, 1,2-	78-87-5	0.09	D	0.036	C	0.004	I	0.00001	C	47	X	2700	1,3,4	13100	15000	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03	I	0.1	I	0.02	I	0.000004	I	27	X	2700	6	13100	15000	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	0.03	I							62	X	500000	5	13000	14900	X	190	2.11
DICHLORVOS	62-73-7	0.0005	I	0.29	I	0.0005	I	0.000083	C	50		10000	2,4,5			X	234	
DICYCLOPENTADIENE	77-73-6	0.008	P			0.007	P			810	X	40	5	13000	14900		167	
DIELDRIN	60-57-1	0.00005	I	16	I			0.0046	I	11000		0.17	4,5,6				385	0.12
DIETHANOLAMINE	111-42-2					0.003	C			4		1000000	2,3,9			X	269	
DIETHYL PHTHALATE	84-66-2	0.8	I							81		1080	4,5,6			X	298	2.25
DIFLUBENZURON	35367-38-5	0.02	I							1,000		0.2	2				201	
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	0.08	I							10	X	160000	9	13000	14900	X	190	
DIMETHOATE	60-51-5	0.0002	I							110		25000	4				361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4			0.014	H					1,300		60	9				331	0.69
DIMETHRIN	70-38-2	0.3	M							27,000		0.036	13				353	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7			4.6	C			0.0013	C	1000		13.6	7				335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002	I							180	X	1200	5,6,7,9	13000	14900	X	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7			11	[H]P					22,000		1300	10				300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06	P	0.0017	P					5	X	1000000	14	13000	14900	X	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02	I							130		7869	1,4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001	I							150		523	3,5,6,7				291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002	I							0.79		5600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002	I	0.31	C			0.000089	C	51		270	4,5,6				300	0.69
DINITROTOLUENE, 2,6-(2,6-DNT)	606-20-2	0.001	P							74		200	6				300	0.69
DINOSEB	88-85-7	0.001	I							120		50	5				223	1.03

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
DIOXANE, 1,4-	123-91-1	**[0.1] 0.03**	**[D] I**	**[0.011] 0.1**	I	**[3.6] 0.11**	D	0.0000077	C	7.8	X	1000000	5	13000	14900	X	101	0.69
DIPHENAMID	957-51-7	0.03	I							200		260	5				210	
DIPHENYLAMINE	122-39-4	0.025	I							190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7			0.8	I			0.00022	I	660		0.252	6				309	0.69
DIQUAT	85-00-7	0.0022	I							2.6		700000	5				355	
DISULFOTON	298-04-4	0.00004	I							1000		25	4,5,6			X	332	6.02
DITHIANE, 1,4-	505-29-3	0.01	I							22.7	[x] X	3000	15	13000	14900		199	
DIURON	330-54-1	0.002	I							300		42	2,4,5				354	
ENDOSULFAN	115-29-7	0.006	I							2,000		0.48	4				401	2.78
ENDOSULFAN I (ALPHA)	959-98-8	0.006	S							2000		0.5	6				401	
ENDOSULFAN II (BETA)	33213-65-9	0.006	S							2300		0.45	6				390	
ENDOSULFAN SULFATE	1031-07-8	0.006	S							2300		0.117	7,9				409	
ENDOTHALL	145-73-3	0.02	I							120		100000	2				350	
ENDRIN	72-20-8	0.0003	I							11000		0.23	4,6,7,9				245	
EPICHLOROHYDRIN	106-89-8	0.006	P	0.0099	I	0.001	I	0.0000012	I	35	X	65800	1,3,4	13000	14900	X	116	4.50
ETHEPHON	16672-87-0	0.005	I							2		1240000	12				201	
ETHION	563-12-2	0.0005	I							8700		0.85	4,6,9,10			X	415	
ETHOXYETHANOL, 2- (EGEE)	110-80-5	0.4	H			0.2	I			12	X	1000000	2	13200	15000	X	136	4.50
ETHYL ACETATE	141-78-6	0.9	I							59	X	80800	1,2,3,4,5,6	13100	15000	X	77	18.07
ETHYL ACRYLATE	140-88-5			0.048	H					110	X	15000	1,2,6	13100	15100	X	100	18.07
ETHYL BENZENE	100-41-4	0.1	I			1	I			220	X	161	1,3,4	13100	15000	X	136	1.11
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	0.025	I							240	X	365	2	12900	14900	X	127	
ETHYL ETHER	60-29-7	0.2	I							68	X	60400	1	13100	15100	X	35	
ETHYL METHACRYLATE	97-63-2	0.09	H			**0.3**	**P**			22	X	4635.5	9,10	13100	15000	X	117	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
ETHYLENE CHLORHYDRIN	**107-07-3**	**0.02**	**P**							**1**	**X**	**1000000**	**9**	**13000**	**14900**	**X**	**128**	
ETHYLENE GLYCOL	107-21-1	2	I			0.4	C			4.4	X	1000000	2	13100	15100	X	198	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008	I	0.045	C			0.000013	C	0.23		20000	2				347	4.50
ETHYL P-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	0.00001	I							1,200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025	I							300		329	2				390	
FENVALERATE (PYDRIN)	51630-58-1	0.025	I							4,400		0.085	5			X	300	
FLUOMETURON	2164-17-2	0.013	I							68		97.5	2,5,6,8				318	
FLUORANTHENE	206-44-0	0.04	I							49000		0.26	1,5,6				375	0.29
FLUORENE	86-73-7	0.04	I							7900		1.9	1				298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3	I			0.7	H			130	X	1090	1,4,5,6	13100	15000	X	24	0.35
FONOFOS	944-22-9	0.002	I							1100		13	5,6,8			X	324	
FORMALDEHYDE	50-00-0	0.2	I			0.0098	D	0.000013	I	3.6	X	55000	1	13100	15100	X	-21	18.07
FORMIC ACID	64-18-6	**[2] 0.9**	**[H] P**			**[0.003] 0.0003**	**[P] X**			0.54	X	1000000	2	13000	14900	X	101	18.07
FOSETYL-AL	39148-24-8	3	I							310		120000	2				464	
FURAN	110-00-9	0.001	I							130	X	10000	1	13100	15000	X	31	2.25
FURFURAL	98-01-1	0.003	I			0.05	H			6.3	X	91000	1,2,3	13000	14900	X	162	
GLYPHOSATE	1071-83-6	0.1	I							3500		12000	1,5,6				417	
HEPTACHLOR	76-44-8	0.0005	I	4.5	I			0.0013	I	6800		0.18	4,6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013	I	9.1	I			0.0026	I	21000		0.311	4,6,7,9				341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008	I	1.6	I			0.00046	I	3800		0.006	1,4,5				319	0.06
HEXACHLOROBUTADIENE	87-68-3	0.001	P	0.078	I				I	4700		2.89	4,5,6,7			X	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006	I			0.0002	I	0.000022		7200		1.8	5,6,7			X	239	4.50

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
HEXACHLOROETHANE	67-72-1	**[0.001] 0.0007**	I	**[0.014] 0.04**	I	**0.03**	**I**	**[0.000004] 0.00001**	**[I] C**	2200	X	50	1	13000	15000		187	0.69
HEXANE	110-54-3	0.06	H			0.7	I				X	9.5	1,5,6	13100	15000	X	69	
HEXAZINONE	51235-04-2	0.033	I							41		330000	1,2				408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025	I						3600	6,500		0.5	2				539	
HMX	2691-41-0	0.05	I							4		5	16				436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2			3	I	**[0.0002] 0.00003**	**[C] P**	0.0049	I	0.0053	X	1000000	2	13000	15000	X	114	18.07
HYDROQUINONE	123-31-9	0.04	P	**[0.066] 0.06**	P					10		70000	2,3,5				285	18.07
INDENO[1,2,3-CD]PYRENE	193-39-5			0.73	N			0.00011	C	31000000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04	I							1,100		13	2				545	
ISOBUTYL ALCOHOL	78-83-1	0.3	I								X	81000	1,2,3,4,5	13000	14900	X	108	17.57
ISOPHORONE	78-59-1	0.2	I	0.00095	I	2	C			31		12000	2,4,5			X	215	4.5
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1	I							**[1.64] 1.84**		50000	13			X	230	
KEPONE	143-50-0	**[0.0005] 0.0003**	**[D] I**	**[16] 10**	**[C] I**			0.0046	60 C	55000		7.6	4				350	0.17
MALATHION	121-75-5	0.02	I							1300		143	4			X	351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5	I							2.8		6000	4				260	
MANEB	12427-38-2	0.005	I							1		23	9,13				351	
MERPHOS OXIDE	78-48-8	0.00003	I							53,000		2.3	8,10,12			X	392	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
METHACRYLONITRILE	126-98-7	0.0001	I			**[0.0007] 0.03**	**[H] P**			21	X	25700	1	13100	15100	X	90	
METHAMIDOPHOS	10265-92-6	0.00005	I							5		2000000	5				223	
METHANOL	67-56-1	0.5	I			4	C			2.8	X	1000000	2	13100	15100	X	65	36.14
METHOMYL	16752-77-5	0.025	I							20		58000	2				228	
METHOXYCHLOR	72-43-5	0.005	I									0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	**[0.003] 0.005**	P			0.02	I				X	1000000	2	13100	15000	X	124	4.50
METHYL ACETATE	79-20-9	1	H							63000 30	X	243500	4,5,6	13100	15100	X	57	
METHYL ACRYLATE	96-33-3	0.03	H			**0.02**	**P**			55	X	52000	1,2,5	13100	15100	X	70	18.07
METHYL CHLORIDE	74-87-3	**[0.004]**	**[M]**	0.013	H	0.09	I	0.0000018	H	6	X	6180	1,2,3,4	13200	15000	X	-24	4.50
METHYL ETHYL KETONE	78-93-3	0.6	I			5	I			32	X	275000	1,2,3,4,5	13100	15100	X	80	2.57
METHYL HYDRAZINE	**60-34-4**	**0.001**	**P**			**0.00002**	**X**	**0.001**	**X**	**1**	**X**	**1000000**	**2**	**1300**	**14900**	**X**	**88**	**5.27**
METHYL ISOBUTYL KETONE	108-10-1	0.08	H			3	I			17	X	19550	1,2,4,5	13100	15100	X	117	18.07
METHYL ISOCYANATE	624-83-9					0.001	C			10	X	100000	7	13000	15000	X	40	
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	**[0.04] 0.005**	**[N]**			**[0.005] 0.03**	**[N]**			54	X	17500	1	13100	15100	X	128	
METHYL METHACRYLATE	80-62-6	1.4	I			0.7	I			10	X	15600	1	13100	15100	X	100	4.50
METHYL METHANESULFONATE	66-27-3			0.099	C			0.000028	C	5.2		200000	2			X	203	
METHYL PARATHION	298-00-0	0.00025	I							790		25	4,5,6				348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006	H			0.04	H			2,200	X	89	9	13100	15000	X	163	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4			0.0018	C	3	I	0.00000026	C	12	X	45000	1,2,4,6	13100	15100	X	55	0.69
METHYLCHLOROPHENOXY ACETIC ACID (MCPA)	94-74-6	0.0005	I							112		1000	5,6,8,9				287	1.39
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	0.002	P	0.1	P			0.00043	C	3,000		13.9	10				379	
METHYLNAPHTHALENE, 2-	91-57-6	0.004	I			0.003	S			16000		25	1				241	
METHYLSTYRENE, ALPHA	98-83-9	0.07	H							660	X	560	9	13100	15100	X	165	
METOLACHLOR	51218-45-2	0.15	I							182	X	530	1,5	13000	15000	X	100	
METRIBUZIN	21087-64-9	0.025	I							95		1200	1,5				367	
MONOCHLOROACETIC ACID	79-11-8	**[0.01] 0.002**	**[M] H**							0.24	X	858000	17	13000	14900		189	
NAPHTHALENE	91-20-3	0.02	I			0.003	I			950		30	3				218	0.98
NAPHTHYLAMINE, 1-	134-32-7			1.8	S			0.00051	S	3200		1690	2				301	0.69
NAPHTHYLAMINE, 2-	91-59-8			1.8	C			0.00051	C	87		6.4	6				306	0.69
NAPROPAMIDE	15299-99-7	0.1	I							880		70	2				399	
NITROANILINE, M-	99-09-2	0.0003	P	0.021	P	0.001	P			18		100	3				306	
NITROANILINE, O-	88-74-4	**[0.003] 0.01**	**[P] X**			**[0.0001] 0.00005**	**[P] X**			27		1200	6				284	
NITROANILINE, P-	100-01-6	0.004	P	0.02	P	0.006	P			15		800	2				332	
NITROBENZENE	98-95-3	0.002	I			0.009	I	0.00004	I	130		2000	2			X	211	0.64
NITROGUANIDINE	556-88-7	0.1	I							0.13		4400	9				231	
NITROPHENOL, 2-	88-75-5	0.008	S							37		2100	1,2,3,4,5,6				215	9.01
NITROPHENOL, 4-	100-02-7	0.008	N							230		16000	2				279	25.81
NITROPROPANE, 2-	79-46-9					0.02	I	0.0027	H	20	X	16700	1,3,4,5	13000	14900	X	120	0.69

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
NITROSODIETHYLAMINE, N-	55-18-5			150	I			0.043	I	26	X	93000	10	13000	14900	X	176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	0.000008	P	51	I	**0.00004**	**X**	0.014	I	8.5	X	1000000	2	13000	14900	X	154	0.69
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3			5.4	I			**[0.016] 0.0016**	I	450		1200	**[0, 13] 9, 10, 11**			X	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7			7	I			0.002	C	11		9900	6			X	206	0.69
NITROSODIPHENYLAMINE, N-	86-30-6	**[0.02]**	**[P]**	0.0049	I			0.0000026	C	580		35	1				269	3.72
NITROSO-N-ETHYLUREA, N-	759-73-9			27	C			0.0077	C	2		13000	9				223	1734.48
OCTYL PHTHALATE, DI-N-	117-84-0	**[0.04] 0.01**	P							980000000			5			X	234	0.69
OXAMYL (VYDATE)	23135-22-0	0.025	I							7.1		280000	2				334	
PARAQUAT	1910-42-5	0.0045	I							16200		660000	6,8				352	
PARATHION	56-38-2	0.006	H							2300		20	2,4,5,6,7			X	375	
PCB-1016 (AROCLOR)	12674-11-2	0.00007	I	0.07	I			0.00002	I	110000	3	0.25	5			X	325	
PCB-1221 (AROCLOR)	11104-28-2			2	I			0.00057	I	1900		0.59	5			X	275	
PCB-1232 (AROCLOR)	11141-16-5			2	I			0.00057	I	1500		1.45	7			X	290	
PCB-1242 (AROCLOR)	53469-21-9			2	I			0.00057	I	48000		0.1	5			X	325	
PCB-1248 (AROCLOR)	12672-29-6			2	I			0.00057	I	190000		0.054	7,9,11			X	340	
PCB-1254 (AROCLOR)	11097-69-1	0.00002	I	2	I			0.00057	I	810000		0.057	5			X	365	
PCB-1260 (AROCLOR)	11096-82-5			2	I			0.00057	I	1800000		0.08	5				385	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
PEBULATE	1114-71-2	0.05	H							630		92	5			X	303	
PENTACHLOROBENZENE	608-93-5	0.0008	I							32000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	76-01-7			0.09	P					1905	X	480	1,3	13100	15100	X	160	
PENTACHLORONITROBENZENE	82-68-8	0.003	I	0.26	H					7900			4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	**[0.03] 0.005**	I	**[0.12] 0.4**	I			0.0000046	C	20000		14	1,2,4,5				310	0.17
PHENACETIN	62-44-2			0.0022	C			0.00000063	C	110		763	2,3,9				341	4.50
PHENANTHRENE	85-01-8	0.3	S							38000	0.44	1.1	1,4,5				341	0.63
PHENOL	108-95-2	0.3	I			0.2	C			22	X	84300	1,2,3,4	13000	14900		182	36.14
PHENYL MERCAPTAN	108-98-5	**[0.00001] 0.001**	**[H] P**							562	X	653	5,9	13000	15000	X	170	
PHENYLENEDIAMINE, M-	108-45-2	0.006	I							12		351000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7			0.0019	H					5,700		700	5				280	18.07
PHORATE	298-02-2	0.0002	H							810		50	2			X	319	
PHTHALIC ANHYDRIDE	85-44-9	2	I			0.02	C			79		6170	2				285	13490.40
PICLORAM	1918-02-1	0.07	I							15		430	2				373	
POLYCHLORINATED BIPHENYLS (AROCLORS) (PCBS)	1336-36-3			2	I			0.00057	I			0.0505	10,13				360	
PROMETON	1610-18-0	0.015	I							346		750	2,5				347	
PRONAMIDE	23950-58-5	0.075	I							200		15	2				321	
PROPANIL	709-98-8	0.005	I							160		225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0					7	C			25	X	1000000	2	13000	14900	X	82	
PROPAZINE	139-40-2	0.02	I							155		8.6	1,5			X	318	
PROPHAM	122-42-9	0.02	I							51		250	5				257	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
PROPYLBENZENE, N-	103-65-1	**[0.04]** **0.1**	**[N] X**			**1**	**X**			720	X	52	6	13100	15100	X	159	
PROPYLENE OXIDE	75-56-9			0.24	I	0.03	I	0.0000037	I	25	X	405000	1	13100	15000	X	34	
PYRENE	129-00-0	0.03	I							68000		0.132	1				393	0.07
PYRIDINE	110-86-1	0.001	I								X	1000000	2	13100	15000	X	115	18.07
QUINOLINE	91-22-5			3	I					1,300		60000	1,3,5			X	238	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009	I						0.0066	580		0.3	2				220	
RDX	121-82-4	0.003	I	0.11	I			**[0.0000031]**	**[I]**	70		59.9	1,9				353	
RESORCINOL	108-46-3	2	TE							2		717000					280	
RONNEL	299-84-3	0.05	H							580		40	2				349	
SIMAZINE	122-34-9	0.005	I	0.12	H					110		5	5				225	
STRYCHNINE	57-24-9	0.0003	I							280		143	5				270	4.50
STYRENE	100-42-5	0.2	I			1	I			910	X	300	5	13100	15100	X	145	1.20
TEBUTHIURON	34014-18-1	0.07	I							620		2500	2				394	
TERBACIL	5902-51-2	0.013	I							53		710	2				396	
TERBUFOS	13071-79-9	0.000025	H							510		5	6			X	332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003	I							1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	**[0.000000001]** **0.0000000007**	D	130000	C	0.00000004	C	38	C	4300000		0.0000193	6				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	0.03	I	0.026	I			0.0000074	I	980	X	1100	1	13000	14600	X	131	3.79

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	**[0.004] 0.02**	I	0.2	I			0.000058	I	79	X	2860	2	13100	15100	X	147	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	**[0.01] 0.006**	I	**[0.052] 0.0021**	**[N] I**	**[0.5] 0.04**	**[N] I**	**[0.00000058] 0.00000026**	**[N] I**	300	X	162	1,2,3,4,5	13100	15000	X	121	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03	I							6200		183	6				288	0.69
TETRAETHYL LEAD	78-00-2	0.0000001	I							4900		0.8	5			X	202	4.50
TETRAETHYLDITHIOPYRO PHOSPHATE	3689-24-5	0.0005	I							550		25	2			X	349	
TETRAHYDROFURAN	109-99-9	**[0.2] 0.9**	**[N] I**	0.0076	N	**[0.3] 2**	**[N] I**	0.00000194	N	43	X	300000	1,6,7	13100	15100	X	66	
THIOFANOX	39196-18-4	0.0003	H							0.022		5200	9				280	
THIRAM	137-26-8	0.005	I							1000		30	4				339	
TOLUENE	108-88-3	0.08	I			5	I			130	X	532.4	1,2,3,4	13100	15000	X	111	9.01
TOLUIDINE, M-	108-44-1			0.18	S			0.000051	S	140		15030	6			X	203	
TOLUIDINE, O-	95-53-4			**[0.18] 0.016**	**[C] P**			0.000051	C	410		15000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0			**[0.19] 0.03**	**[H] P**					320		7410	1,2,3				200	
TOXAPHENE	8001-35-2			1.1	I			0.00032	I	1500		3	2,4,5				432	
TRIALLATE	2303-17-5	0.013	I							2,000		4	5			X	343	
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02	I	0.0079	I			0.0000011	I	130	X	3050	1,2,3,4	13100	15100	X	149	0.69

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	30	I			30	H			1,200	X	170	1	13100	15000	X	48	0.35
TRICHLOROACETIC ACID	**76-03-9**	**0.02**	**I**	**0.07**	**I**					**20**	**X**	**1200000**	**2,3,5,9**				**196**	
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01	I	**[0.0036] 0.029**	**[C] P**	**[0.004] 0.002**	P			1500		44.4	1,4,6,7			X	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006	M			**[0.004] 0.002**	S			3100		5.8	5				208	
TRICHLOROETHANE, 1,1,1-	71-55-6	2	I			5	I			100	X	1495	1,4,5,6	13100	15000	X	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004	I	0.057	I	**0.0002**	**X**	0.000016	I	76	X	4420	1	13100	15100	X	114	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	**[0.006] 0.0005**	**[N] I**	**[0.011] 0.05**	**[N] I**	**[0.5] 0.002**	**[D] I**	**[0.0000017] 0.000004**	**[N] I**	93	X	1100	1	13100	15000	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1	I							2400		1000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	0.001	P	0.011	I			0.0000031	I	1100			1,2,4,5				246	0.14
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01	I							43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	0.008	I							1700	850	140	2				353	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005	I							24	X	2700	14	13100	15000	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	**[0.006] 0.004**	I	**[7] 160**	**[H] I**	**[0.005] 0.0003**	**[N] I**			280	X	1896	1,4,6	13100	15100	X	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	**[0.01] 0.003**	**[P] X**			**[0.001] 0.0003**	P			190	X	2700	14	13100	15000	X	142	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(\mu g/m^3)^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient $(K)(yr^{-1})$
TRIETHYLAMINE	121-44-8					0.007	I			51	X	55000	1,4	13100	15100	X	90	
TRIFLURALIN	1582-09-8	0.0075	I	0.0077	I					720		4	2,5,6,7				382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	**[0.05]**	**[P]**			0.007	P			2,200	X	56	1	13100	15000	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	**[0.05]** **0.01**	**[P] X**			**[0.006]**	**[P]**			660	X	48.9	1	13100	15100	X	165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001	P	0.017	P						X	1800	2,3,5	13000	15000	X	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005	I	0.03	I					1		100	2				240	
VINYL ACETATE	108-05-4	1	H			0.2	I			2.8	X	20000	1	13200	15000	X	73	
VINYL BROMIDE (BROMOETHENE)	593-60-2					0.003	I	0.000032	H	150	X	4180	12	13100	15000	X	16	0.09
VINYL CHLORIDE	75-01-4	0.003	I	**[0.72]** **1.5**	I	0.1	I	**[0.0000044]** **0.000009**	I	10	X	2700	1	13200	15000	X	-13	0.09
WARFARIN	81-81-2	0.0003	I							910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	0.2	I			0.1	I			350	X	175	13	13100	15000	X	140	0.69
ZINEB	12122-67-7	0.05	I							19		10	4				474	

[1]

Toxicity Value Sources:

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories
N = EPA NCEA Provisional Values
P = EPA Provisional Peer-Reviewed Toxicity Value
S = surrogate
T = TEF
TE = TERA ITER Peer-Reviewed Value
X = EPA Provisional Peer-Reviewed Toxicity Value Appendix