

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
ACENAPHTHENE	83-32-9	210	2,600	E	380	4,700	E	380	4,700	E	380	4,700	E	380	4,700	E	15			
ACENAPHTHYLENE	208-96-8	210	2,400	E	580	6,600	E	1,600	18,000	E	1,600	18,000	E	1,600	18,000	E	15			
ACEPHATE	30560-19-1	4.2	0.5	E	12	1.4	E	420	50	E	1,200	140	E	4.2	0.5	E	NA			
ACETALDEHYDE	75-07-0	1.9	0.23	E	7.9	0.96	E	190	23	E	790	96	E	1.9	0.23	E	NA			
ACETONE	67-64-1	3,100	350	E	8,800	980	E	10,000	10,000	C	10,000	10,000	C	10,000	3,500	E	10,000	9,800	E	NA
ACETONITRILE	75-05-8	13	1.5	E	53	6	E	1,300	150	E	5,300	600	E	130	15	E	530	60	E	NA
ACETOPHENONE	98-86-2	350	190	E	970	520	E	10,000	10,000	C	10,000	10,000	C	350	190	E	970	520	E	NA
ACETYLAMINOFLUORENE, 2-(2AAF)	53-96-3	0.017	0.07	E	0.072	0.3	E	1.7	7	E	7.2	30	E	17	70	E	72	300	E	20
ACROLEIN	107-02-8	0.0042	0.00047	E	0.018	0.002	E	0.42	0.047	E	1.8	0.2	E	0.042	0.0047	E	0.18	0.02	E	NA
ACRYLAMIDE	79-06-1	0.019	0.0033	E	0.25	0.043	E	1.9	0.33	E	25	4.3	E	0.019	0.0033	E	0.25	0.043	E	NA
ACRYLIC ACID	79-10-7	[0.21] 0.042	[0.039] 0.0077	E	[0.88] 0.18	[0.16] 0.033	E	[21] 4.2	[3.9] 0.77	E	[88] 18	[16] 3.3	E	[21] 4.2	[3.9] 0.77	E	[88] 18	[16] 3.3	E	NA
ACRYLONITRILE	107-13-1	0.072	0.01	E	0.37	0.051	E	7.2	1	E	37	5.1	E	7.2	1	E	37	5.1	E	NA
ALACHLOR	15972-60-8	0.2	0.077	E	0.2	0.077	E	20	7.7	E	20	7.7	E	0.2	0.077	E	0.2	0.077	E	NA
ALDICARB	116-06-3	0.3	0.05	E	0.3	0.05	E	30	5	E	30	5	E	300	50	E	300	50	E	NA
ALDICARB SULFONE	1646-88-4	0.2	0.027	E	0.2	0.027	E	20	2.7	E	20	2.7	E	0.2	0.027	E	0.2	0.027	E	NA
ALDICARB SULFOXIDE	1646-87-3	0.4	0.045	E	0.4	0.045	E	40	4.5	E	40	4.5	E	0.4	0.045	E	0.4	0.045	E	NA
ALDRIN	309-00-2	0.0038	0.46	E	0.016	1.9	E	0.38	46	E	1.6	190	E	2	240	E	2	240	E	10
ALLYL ALCOHOL	107-18-6	0.021	0.0025	E	0.088	0.01	E	2.1	0.25	E	8.8	1	E	2.1	0.25	E	8.8	1	E	NA
AMETRYN	834-12-8	6	6.5	E	6	6.5	E	600	650	E	600	650	E	6	6.5	E	6	6.5	E	NA
AMINOBIHENYL, 4-	92-67-1	0.0031	0.0012	E	0.013	0.005	E	0.31	0.12	E	1.3	0.5	E	3.1	1.2	E	13	5	E	NA
AMITROLE	61-82-5	0.069	0.028	E	0.29	0.12	E	6.9	2.8	E	29	12	E	69	28	E	290	120	E	NA
AMMONIA	7664-41-7	3,000	360	E	3,000	360	E	10,000	10,000	C	10,000	10,000	C	3,000	360	E	3,000	360	E	NA
AMMONIUM SULFAMATE	7773-06-0	200	24	E	200	24	E	20,000	2,400	E	20,000	2,400	E	200	24	E	200	24	E	NA
ANILINE	62-53-3	0.21	0.12	E	0.88	0.52	E	21	12	E	88	52	E	0.21	0.12	E	0.88	0.52	E	NA
ANTHRACENE	120-12-7	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	10
ATRAZINE	1912-24-9	0.3	0.13	E	0.3	0.13	E	30	13	E	30	13	E	0.3	0.13	E	0.3	0.13	E	NA
AZINPHOS-METHYL (GUTHION)	86-50-0	5.2	5.9	E	15	17	E	520	590	E	1,500	1,700	E	5.2	5.9	E	15	17	E	NA
BAYGON (PROPOXUR)	114-26-1	0.3	0.057	E	0.3	0.057	E	30	5.7	E	30	5.7	E	300	57	E	300	57	E	NA
BENOMYL	17804-35-2	27	130	E	110	530	E	200	970	E	200	970	E	27	130	E	110	530	E	20
BENTAZON	25057-89-0	20	2.9	E	20	2.9	E	2,000	290	E	2,000	290	E	20	2.9	E	20	2.9	E	NA
BENZENE	71-43-2	0.5	0.13	E	0.5	0.13	E	50	13	E	50	13	E	50	13	E	50	13	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

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Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
BENZIDINE	92-87-5	0.000092	0.12	E	0.0012	1.6	E	0.0092	12	E	0.12	160	E	0.092	120	E	1.2	1,600	E	5
BENZO[A]ANTHRACENE	56-55-3	[0.03] 0.21	[26] 180	E	[0.39] 1.1	[340] 960	E	1.1	960	E	1.1	960	E	1.1	960	E	1.1	960	E	5
BENZO[A]PYRENE	50-32-8	0.02	46	E	0.02	46	E	0.38	860	E	0.38	860	E	0.38	860	E	0.38	860	E	5
BENZO[B]FLUORANTHENE	205-99-2	[0.018] 0.12	[25] 170	E	0.12	170	E	0.12	170	E	0.12	170	E	0.12	170	E	0.12	170	E	5
BENZO[GHI]PERYLENE	191-24-2	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	5
BENZO[K]FLUORANTHENE	207-08-9	[0.018] 0.055	[200] 610	E	0.055	610	E	0.055	610	E	0.055	610	E	0.055	610	E	0.055	610	E	5
BENZOIC ACID	65-85-0	14,000	2,700	E	39,000	7,500	E	190,000	52,000	E	190,000	52,000	E	14,000	2,700	E	39,000	7,500	E	NA
BENZOTRICHORIDE	98-07-7	0.005	0.012	E	0.021	0.051	E	0.5	1.2	E	2.1	5.1	E	0.5	1.2	E	2.1	5.1	E	30
BENZYL ALCOHOL	100-51-6	350	130	E	970	350	E	10,000	10,000	C	10,000	10,000	C	350	130	E	970	350	E	NA
BENZYL CHLORIDE	100-44-7	0.1	0.059	E	0.51	0.3	E	10	5.9	E	51	30	E	10	5.9	E	51	30	E	NA
BETA PROPIOLACTONE	57-57-8	0.0012	0.00015	E	0.0063	0.00076	E	0.12	0.015	E	0.63	0.076	E	0.012	0.0015	E	0.063	0.0076	E	NA
BHC, ALPHA	319-84-6	0.01	0.046	E	0.043	0.2	E	1	4.6	E	4.3	20	E	10	46	E	43	200	E	20
BHC, BETA-	319-85-7	0.036	0.21	E	0.15	0.88	E	3.6	21	E	10	59	E	10	59	E	10	59	E	15
BHC, GAMMA (LINDANE)	58-89-9	0.02	0.072	E	0.02	0.072	E	2	7.2	E	2	7.2	E	20	72	E	20	72	E	20
BIPHENYL, 1,1-	92-52-4	0.084	0.37	E	0.35	1.5	E	8.4	37	E	35	150	E	8.4	37	E	35	150	E	20
BIS(2-CHLOROETHOXY) METHANE	111-91-1	10	2.6	E	29	7.6	E	1,000	260	E	2,900	760	E	10	2.6	E	29	7.6	E	NA
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.015	0.0045	E	0.076	0.023	E	1.5	0.45	E	7.6	2.3	E	1.5	0.45	E	7.6	2.3	E	NA
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	30	8	E	30	8	E	3,000	800	E	3,000	800	E	3,000	800	E	3,000	800	E	NA
BIS(CHLOROMETHYL)ETHER	542-88-1	0.000079	0.000012	E	0.0004	0.00006	E	0.0079	0.0012	E	0.04	0.006	E	0.0079	0.0012	E	0.04	0.006	E	NA
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.6	130	E	0.6	130	E	29	6,300	E	29	6,300	E	29	6,300	E	29	6,300	E	10
BISPHENOL A	80-05-7	170	660	E	490	1,900	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	20
BROMACIL	314-40-9	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7	1.8	E	7	1.8	E	NA
BROMOBENZENE	108-86-1	0.006	0.0047	E	0.006	0.0047	E	0.6	0.47	E	0.6	0.47	E	0.006	0.0047	E	0.006	0.0047	E	NA
BROMOCHLOROMETHANE	74-97-5	9	1.6	E	9	1.6	E	900	160	E	900	160	E	9	1.6	E	9	1.6	E	NA
BROMODICHLORO METHANE (THM)	75-27-4	8	2.7	E	8	2.7	E	800	270	E	800	270	E	8	2.7	E	8	2.7	E	NA
BROMOMETHANE	74-83-9	1	0.54	E	1	0.54	E	100	54	E	100	54	E	100	54	E	100	54	E	NA
BROMOXYNIL	1689-84-5	0.63	0.54	E	2.6	2.2	E	63	54	E	260	220	E	0.63	0.54	E	2.6	2.2	E	NA
BROMOXYNIL OCTANOATE	1689-99-2	0.63	28	E	2.6	120	E	8	360	E	8	360	E	8	360	E	8	360	E	15

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		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
BUTADIENE, 1,3-	106-99-0	0.11	0.045	E	0.45	0.19	E	11	4.5	E	45	19	E	11	4.5	E	45	19	E	NA
BUTYL ALCOHOL, N-	71-36-3	350	42	E	970	120	E	10,000	4,200	E	10,000	10,000	C	3,500	420	E	9,700	1,200	E	NA
BUTYLATE	2008-41-5	40	58	E	40	58	E	4,000	5,800	E	4,000	5,800	E	40	58	E	40	58	E	30
BUTYLBENZENE, N-	104-51-8	170	1,100	E	490	3,100	E	1,500	9,500	E	1,500	9,500	E	170	1,100	E	490	3,100	E	15
BUTYLBENZENE, SEC-	135-98-8	350	820	E	970	2,300	E	1,700	4,000	E	1,700	4,000	E	350	820	E	970	2,300	E	30
BUTYLBENZENE, TERT-	98-06-6	350	630	E	970	1,800	E	3,000	5,400	E	3,000	5,400	E	350	630	E	970	1,800	E	30
BUTYLBENZYL PHTHALATE	85-68-7	34	2,900	E	140	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	10
CAPTAN	133-06-2	28	17	E	50	31	E	50	31	E	50	31	E	50	31	E	50	31	E	NA
CARBARYL	63-25-2	350	210	E	970	570	E	12,000	7,000	E	12,000	7,000	E	12,000	7,000	E	12,000	7,000	E	NA
CARBAZOLE	86-74-8	3.3	21	E	14	89	E	120	760	E	120	760	E	3.3	21	E	14	89	E	15
CARBOFURAN	1563-66-2	4	0.87	E	4	0.87	E	400	87	E	400	87	E	4	0.87	E	4	0.87	E	NA
CARBON DISULFIDE	75-15-0	150	130	E	620	530	E	10,000	10,000	C	10,000	10,000	C	150	130	E	620	530	E	NA
CARBON TETRACHLORIDE	56-23-5	0.5	0.26	E	0.5	0.26	E	50	26	E	50	26	E	5	2.6	E	5	2.6	E	NA
CARBOXIN	5234-68-4	70	53	E	70	53	E	7,000	5,300	E	7,000	5,300	E	70	53	E	70	53	E	NA
CHLORAMBEN	133-90-4	10	1.6	E	10	1.6	E	1,000	160	E	1,000	160	E	10	1.6	E	10	1.6	E	NA
CHLORDANE	57-74-9	0.2	49	E	0.2	49	E	5.6	1,400	E	5.6	1,400	E	5.6	1,400	E	5.6	1,400	E	10
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	10,000	1,800	E	10,000	7,300	E	10,000	10,000	C	10,000	10,000	C	10,000	1,800	E	10,000	7,300	E	NA
CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE)	107-05-1	0.21	0.049	E	0.88	0.2	E	21	4.9	E	88	20	E	21	4.9	E	88	20	E	NA
CHLOROACETALDEHYDE	107-20-0	0.24	0.029	E	1	0.12	E	24	2.9	E	100	12	E	0.24	0.029	E	1	0.12	E	NA
CHLOROANILINE, P-	106-47-8	0.33	0.42	E	1.4	1.8	E	33	42	E	140	180	E	0.33	0.42	E	1.4	1.8	E	NA
CHLOROBENZENE	108-90-7	10	6.1	E	10	6.1	E	1,000	610	E	1,000	610	E	1,000	610	E	1,000	610	E	NA
CHLOROBENZILATE	510-15-6	0.59	3.9	E	2.5	17	E	59	390	E	250	1,700	E	590	3,900	E	1,300	8,600	E	15
CHLOROBUTANE, 1-	109-69-3	140	220	E	390	610	E	10,000	10,000	C	10,000	10,000	C	140	220	E	390	610	E	30
CHLORODIBROMO METHANE (THM)	124-48-1	8	2.5	E	8	2.5	E	800	250	E	800	250	E	800	250	E	800	250	E	NA
CHLORODIFLUORO METHANE (THM)	75-45-6	10,000	2,800	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	2,800	E	10,000	10,000	C	NA
CHLOROETHANE	75-00-3	[2,100] 840	[450] 180	E	[8,800] 3,500	[1,900] 760	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
CHLOROFORM (THM)	67-66-3	8	2	E	8	2	E	800	200	E	800	200	E	80	20	E	80	20	E	NA
CHLORONAPHTHALENE, 2-	91-58-7	280	6,000	E	780	17,000	E	1,200	26,000	E	1,200	26,000	E	280	6,000	E	780	17,000	E	15
CHLORONITROBENZENE, P-	100-00-5	0.42	0.55	E	1.8	2.4	E	42	55	E	180	240	E	0.42	0.55	E	1.8	2.4	E	NA
CHLOROPHENOL, 2-	95-57-8	4	4.4	E	4	4.4	E	400	440	E	400	440	E	4	4.4	E	4	4.4	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

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		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
CHLOROPRENE	126-99-8	0.016	0.0038	E	0.083	0.02	E	1.6	0.38	E	8.3	2	E	1.6	0.38	E	8.3	2	E	NA
CHLOROPROPANE, 2-	75-29-6	21	16	E	88	67	E	2,100	1,600	E	8,800	6,700	E	21	16	E	88	67	E	NA
CHLOROTHALONIL	1897-45-6	3.8	9.7	E	16	41	E	60	150	E	60	150	E	3.8	9.7	E	16	41	E	30
CHLOROTOLUENE, O-	95-49-8	10	20	E	10	20	E	1,000	2,000	E	1,000	2,000	E	10	20	E	10	20	E	30
CHLOROTOLUENE, P-	106-43-4	10	10	E	10	10	E	1,000	1,000	E	1,000	1,000	E	10	10	E	10	10	E	NA
CHLORPYRIFOS	2921-88-2	0.2	2.3	E	0.2	2.3	E	20	230	E	20	230	E	0.2	2.3	E	0.2	2.3	E	15
CHLORSULFURON	64902-72-3	[69] 170	[9.6] 24	E	[190] 490	[26] 68	E	[6,900] 17,000	[960] 2,400	E	19,000	2,600	E	[69] 170	[9.6] 24	E	[190] 490	[26] 68	E	NA
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	7	110	E	7	110	E	50	820	E	50	820	E	50	820	E	50	820	E	15
CHRYSENE	218-01-9	[0.18] 0.19	[220] 230	E	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	5
CRESOL(S)	1319-77-3	130	23	E	530	92	E	10,000	2,300	E	10,000	9,200	E	10,000	2,300	E	10,000	9,200	E	NA
CRESOL, 4,6-DINITRO-O-	534-52-1	0.28	0.21	E	0.78	0.59	E	28	21	E	78	59	E	28	21	E	78	59	E	NA
CRESOL, O- (2-METHYLPHENOL)	95-48-7	170	28	E	490	81	E	17,000	2,800	E	49,000	8,100	E	17,000	2,800	E	49,000	8,100	E	NA
CRESOL, M- (3-METHYLPHENOL)	108-39-4	170	34	E	490	97	E	10,000	3,400	E	10,000	9,700	E	10,000	10,000	C	10,000	10,000	C	NA
CRESOL, P- (4-METHYLPHENOL)	106-44-5	[17] 69	[4] 16	E	[49] 190	[11] 44	E	[1,700] 6,900	[400] 1,600	E	[4,900] 19,000	[1,100] 4,400	E	[17,000] 69,000	[4,000] 16,000	E	[49,000] 190,000	[11,000] 44,000	E	NA
CRESOL, P-CHLORO-M-	59-50-7	350	720	E	970	2,000	E	35,000	72,000	E	97,000	190,000	C	350	720	E	970	2,000	E	30
CROTONALDEHYDE	4170-30-3	0.034	0.0043	E	0.14	0.018	E	3.4	0.43	E	14	1.8	E	3.4	0.43	E	14	1.8	E	NA
CROTONALDEHYDE, TRANS-	123-73-9	0.034	0.0043	E	0.14	0.018	E	3.4	0.43	E	14	1.8	E	3.4	0.43	E	14	1.8	E	NA
CUMENE (ISOPROPYL BENZENE)	98-82-8	84	600	E	350	2,500	E	5,000	10,000	C	5,000	10,000	C	5,000	10,000	C	5,000	10,000	C	15
CYANAZINE	21725-46-2	0.1	0.061	E	0.1	0.061	E	10	6.1	E	10	6.1	E	0.1	0.061	E	0.1	0.061	E	NA
CYCLOHEXANE	110-82-7	1,300	1,700	E	5,300	6,900	E	5,500	7,200	E	5,500	7,200	E	1,300	1,700	E	5,300	6,900	E	NA
CYCLOHEXANONE	108-94-1	150	41	E	620	170	E	10,000	4,100	E	10,000	10,000	C	150	41	E	620	170	E	NA
CYFLUTHRIN	68359-37-5	0.1	33	E	0.1	33	E	0.1	33	E	0.1	33	E	0.1	33	E	0.1	33	E	10
CYROMAZINE	66215-27-8	1,700	5,300	E	4,900	15,000	E	170,000	190,000	C	190,000	190,000	C	1,700	5,300	E	4,900	15,000	E	20
DDD, 4,4'-	72-54-8	0.27	30	E	1.1	120	E	16	1,800	E	16	1,800	E	16	1,800	E	16	1,800	E	10
DDE, 4,4'-	72-55-9	0.19	41	E	0.8	170	E	4	870	E	4	870	E	4	870	E	4	870	E	10
DDT, 4,4'-	50-29-3	0.19	110	E	0.55	330	E	0.55	330	E	0.55	330	E	0.55	330	E	0.55	330	E	5
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	40	10,000	C	40	10,000	C	4,000	10,000	C	4,000	10,000	C	10,000	10,000	C	10,000	10,000	C	5
DIALATE	2303-16-4	1.1	0.64	E	4.5	2.6	E	110	64	E	450	260	E	1,100	640	E	4,000	2,300	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
DIAMINOTOLUENE, 2,4-	95-80-7	0.016	0.0032	E	0.068	0.014	E	1.6	0.32	E	6.8	1.4	E	16	3.2	E	68	14	E	NA
DIAZINON	333-41-5	0.1	0.14	E	0.1	0.14	E	10	14	E	10	14	E	0.1	0.14	E	0.1	0.14	E	30
DIBENZO[A,H] ANTHRACENE	53-70-3	[0.0052] 0.021	[23] 95	E	0.06	270	E	0.06	270	E	0.06	270	E	0.06	270	E	0.06	270	E	5
DIBENZOFURAN	132-64-9	3.5	90	E	9.7	250	E	350	9,000	E	450	12,000	E	350	9,000	E	450	12,000	E	15
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.02	0.0092	E	0.02	0.0092	E	2	0.92	E	2	0.92	E	2	0.92	E	2	0.92	E	NA
DIBROMOBENZENE, 1,4-	106-37-6	35	140	E	97	400	E	2,000	8,200	E	2,000	8,200	E	35	140	E	97	400	E	20
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.005	0.0012	E	0.005	0.0012	E	0.5	0.12	E	0.5	0.12	E	0.5	0.12	E	0.5	0.12	E	NA
DIBROMOMETHANE	74-95-3	0.84	0.32	E	3.5	1.4	E	84	32	E	350	140	E	84	32	E	350	140	E	NA
DIBUTYL PHTHALATE, N-	84-74-2	350	1,400	E	970	4,000	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
DICAMBA	1918-00-9	400	45	E	400	45	E	40,000	4,500	E	40,000	4,500	E	400	45	E	400	45	E	NA
DICHLOROACETIC ACID (HAA)	76-43-6	6	0.79	E	6	0.79	E	600	79	E	600	79	E	6	0.79	E	6	0.79	E	NA
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.0012	0.00067	E	0.006	0.0034	E	0.12	0.067	E	0.6	0.34	E	0.0012	0.00067	E	0.006	0.0034	E	NA
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0.0012	0.00078	E	0.006	0.0039	E	0.12	0.078	E	0.6	0.39	E	0.0012	0.00078	E	0.006	0.0039	E	NA
DICHLOROBENZENE, 1,2-	95-50-1	60	59	E	60	59	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	NA
DICHLOROBENZENE, 1,3-	541-73-1	60	61	E	60	61	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	NA
DICHLOROBENZENE, P-	106-46-7	7.5	10	E	7.5	10	E	750	1,000	E	750	1,000	E	750	1,000	E	750	1,000	E	30
DICHLOROBENZIDINE, 3,3'-	91-94-1	0.14	7.7	E	0.6	33	E	14	770	E	60	3,300	E	140	7,700	E	310	17,000	E	10
DICHLORODIFLUORO-METHANE (FREON 12)	75-71-8	100	100	E	100	100	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
DICHLOROETHANE, 1,1-	75-34-3	3.1	0.75	E	16	3.9	E	310	75	E	1,600	390	E	31	7.5	E	160	39	E	NA
DICHLOROETHANE, 1,2-	107-06-2	0.5	0.1	E	0.5	0.1	E	50	10	E	50	10	E	5	1	E	5	1	E	NA
DICHLOROETHYLENE, 1,1-	75-35-4	0.7	0.19	E	0.7	0.19	E	70	19	E	70	19	E	7	1.9	E	7	1.9	E	NA
DICHLOROETHYLENE, CIS-1,2-	156-59-2	7	1.6	E	7	1.6	E	700	160	E	700	160	E	70	16	E	70	16	E	NA
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	10	2.3	E	10	2.3	E	1,000	230	E	1,000	230	E	100	23	E	100	23	E	NA
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA
DICHLOROPHENOL, 2,4-	120-83-2	2	1	E	2	1	E	200	100	E	200	100	E	2,000	1,000	E	2,000	1,000	E	NA
DICHLOROPHENOXY ACETIC ACID, 2,4- (2,4-D)	94-75-7	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7,000	1,800	E	7,000	1,800	E	NA
DICHLOROPROPANE, 1,2-	78-87-5	0.5	0.11	E	0.5	0.11	E	50	11	E	50	11	E	5	1.1	E	5	1.1	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
DICHLOROPROPENE, 1,3-	542-75-6	0.65	0.12	E	2.7	0.48	E	65	12	E	270	48	E	65	12	E	270	48	E	NA
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	20	5.3	E	20	5.3	E	2,000	530	E	2,000	530	E	2,000	530	E	2,000	530	E	NA
DICHLORVOS	62-73-7	0.22	0.052	E	0.94	0.22	E	22	5.2	E	94	22	E	0.22	0.052	E	0.94	0.22	E	NA
DICYCLOPENTADIENE	77-73-6	0.063	0.13	E	0.26	0.56	E	6.3	13	E	26	56	E	0.063	0.13	E	0.26	0.56	E	30
DIELDRIN	60-57-1	0.0041	0.11	E	0.017	0.47	E	0.41	11	E	1.7	47	E	4.1	110	E	17	470	E	15
DIETHYL PHTHALATE	84-66-2	2,800	880	E	7,800	2,400	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
DIFLUBENZURON	35367-38-5	20	52	E	20	52	E	20	52	E	20	52	E	20	52	E	20	52	E	20
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	60	8.2	E	60	8.2	E	6,000	820	E	6,000	820	E	60	8.2	E	60	8.2	E	NA
DIMETHOATE	60-51-5	7.6	2.9	E	21	8.1	E	760	290	E	2,100	810	E	7,600	2,900	E	21,000	8,100	E	NA
DIMETHOXYBENZIDINE, 3,3-	119-90-4	0.041	0.14	E	0.17	0.57	E	4.1	14	E	17	57	E	41	140	E	170	570	E	20
DIMETHRIN	70-38-2	3.6	240	E	3.6	240	E	3.6	240	E	3.6	240	E	3.6	240	E	3.6	240	E	10
DIMETHYLAMINOAZO BENZENE, P-	60-11-7	0.014	0.037	E	0.059	0.15	E	1.4	3.7	E	5.9	15	E	14	37	E	59	150	E	20
DIMETHYLANILINE, N,N-	121-69-7	2.4	1.3	E	10	5.6	E	240	130	E	1,000	560	E	240	130	E	1,000	560	E	NA
DIMETHYLBENZIDINE, 3,3-	119-93-7	0.0059	0.33	E	0.025	1.4	E	0.59	33	E	2.5	140	E	5.9	330	E	25	1,400	E	10
DIMETHYL METHYLPHOSPHONATE	756-79-6	10	1.2	E	10	1.2	E	1,000	120	E	1,000	120	E	10	1.2	E	10	1.2	E	NA
DIMETHYLPHENOL, 2,4-	105-67-9	69	30	E	190	83	E	6,900	3,000	E	10,000	8,300	E	10,000	10,000	C	10,000	10,000	C	NA
DINITROBENZENE, 1,3-	99-65-0	0.1	0.049	E	0.1	0.049	E	10	4.9	E	10	4.9	E	100	49	E	100	49	E	NA
DINITROPHENOL, 2,4-	51-28-5	6.9	0.78	E	19	2.1	E	690	78	E	1,900	210	E	6,900	780	E	19,000	2,100	E	NA
DINITROTOLUENE, 2,4-	121-14-2	0.21	0.05	E	0.88	0.21	E	21	5	E	88	21	E	210	50	E	880	210	E	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.043	0.013	E	0.18	0.053	E	4.3	1.3	E	18	5.3	E	43	13	E	180	53	E	NA
DINOSEB	88-85-7	0.7	0.29	E	0.7	0.29	E	70	29	E	70	29	E	700	290	E	700	290	E	NA
DIOXANE, 1,4-	123-91-1	0.65	0.085	E	2.7	0.35	E	65	8.5	E	270	35	E	6.5	0.85	E	27	3.5	E	NA
DIPHENAMID	957-51-7	20	12	E	20	12	E	2,000	1,200	E	2,000	1,200	E	20	12	E	20	12	E	NA
DIPHENYLAMINE	122-39-4	350	210	E	970	570	E	30,000	18,000	E	30,000	18,000	E	30,000	18,000	E	30,000	18,000	E	NA
DIPHENYLHYDRAZINE, 1,2-	122-66-7	0.022	0.039	E	0.11	0.19	E	2.2	3.9	E	11	19	E	2.2	3.9	E	11	19	E	30
DIQUAT	[85-00-7] 2764-72-9	2	0.24	E	2	0.24	E	200	24	E	200	24	E	2	0.24	E	2	0.24	E	NA
DISULFOTON	298-04-4	0.07	0.18	E	0.07	0.18	E	7	18	E	7	18	E	70	180	E	70	180	E	20
DITHIANE, 1,4-	505-29-3	8	1.3	E	8	1.3	E	800	130	E	800	130	E	8	1.3	E	8	1.3	E	NA
DIURON	330-54-1	6.9	5.9	E	19	16	E	690	590	E	1,900	1,600	E	6.9	5.9	E	19	16	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
ENDOSULFAN	115-29-7	21	110	E	48	250	E	48	250	E	48	250	E	48	250	E	48	250	E	15
ENDOSULFAN I (ALPHA)	959-98-8	21	110	E	50	260	E	50	260	E	50	260	E	21	110	E	50	260	E	15
ENDOSULFAN II (BETA)	33213-65-9	21	120	E	45	260	E	45	260	E	45	260	E	21	120	E	45	260	E	15
ENDOSULFAN SULFATE	1031-07-8	12	70	E	12	70	E	12	70	E	12	70	E	12	70	E	12	70	E	15
ENDOTHALL	145-73-3	10	4.1	E	10	4.1	E	1,000	410	E	1,000	410	E	10	4.1	E	10	4.1	E	NA
ENDRIN	72-20-8	0.2	5.5	E	0.2	5.5	E	20	550	E	20	550	E	0.2	5.5	E	0.2	5.5	E	15
EPICHLOROHYDRIN	106-89-8	0.21	0.042	E	0.88	0.17	E	21	4.2	E	88	17	E	21	4.2	E	88	17	E	NA
ETHEPHON	16672-87-0	17	2	E	49	5.7	E	1,700	200	E	4,900	570	E	17	2	E	49	5.7	E	NA
ETHION	563-12-2	1.7	37	E	4.9	110	E	85	1,900	E	85	1,900	E	1.7	37	E	4.9	110	E	15
ETHOXYETHANOL, 2- (EGEE)	110-80-5	[42] 8.4	[5.9] 1.2	E	[180] 35	[25] 4.9	E	[4,200] 840	[590] 120	E	[10,000] 3,500	[2,500] 490	E	[4,200] 840	[590] 120	E	[10,000] 3,500	[2,500] 490	E	NA
ETHYL ACETATE	141-78-6	15	3.9	E	62	16	E	1,500	390	E	6,200	1,600	E	1,500	390	E	6,200	1,600	E	NA
ETHYL ACRYLATE	140-88-5	1.4	0.54	E	5.7	2.2	E	140	54	E	570	220	E	140	54	E	570	220	E	NA
ETHYL BENZENE	100-41-4	70	46	E	70	46	E	7,000	4,600	E	7,000	4,600	E	7,000	4,600	E	7,000	4,600	E	NA
ETHYL DIPROPYL THIOCARBAMATE, S- (EPTC)	759-94-4	170	120	E	490	350	E	10,000	10,000	C	10,000	10,000	C	170	120	E	490	350	E	NA
ETHYL ETHER	60-29-7	690	190	E	1,900	530	E	10,000	10,000	C	10,000	10,000	C	690	190	E	1,900	530	E	NA
ETHYL METHACRYLATE	97-63-2	63	10	E	260	43	E	6,300	1,000	E	10,000	4,300	E	63	10	E	260	43	E	NA
ETHYLENE CHLORHYDRIN	107-07-3	69	7.9	E	190	22	E	6,900	790	E	10,000	2,200	E	69	7.9	E	190	22	E	NA
ETHYLENE GLYCOL	107-21-1	1,400	170	E	1,400	170	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ETHYLENE THIOUREA (ETU)	96-45-7	0.28	0.031	E	0.78	0.087	E	28	3.1	E	78	8.7	E	280	31	E	780	87	E	NA
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	0.035	0.11	E	0.097	0.3	E	3.5	11	E	9.7	30	E	0.035	0.11	E	0.097	0.3	E	20
FENAMIPHOS	22224-92-6	0.07	0.06	E	0.07	0.06	E	7	6	E	7	6	E	0.07	0.06	E	0.07	0.06	E	NA
FENVALERATE (PYDRIN)	51630-58-1	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	15
FLUOMETURON	2164-17-2	9	2.5	E	9	2.5	E	900	250	E	900	250	E	9	2.5	E	9	2.5	E	NA
FLUORANTHENE	206-44-0	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	10
FLUORENE	86-73-7	140	2,800	E	190	3,800	E	190	3,800	E	190	3,800	E	190	3,800	E	190	3,800	E	15
FLUOROTRICHORO METHANE (FREON 11)	75-69-4	200	87	E	200	87	E	10,000	8,700	E	10,000	8,700	E	10,000	8,700	E	10,000	8,700	E	NA
FONOFOS	944-22-9	1	2.9	E	1	2.9	E	100	290	E	100	290	E	1	2.9	E	1	2.9	E	20
FORMALDEHYDE	50-00-0	100	12	E	100	12	E	10,000	1,200	E	10,000	1,200	E	10,000	1,200	E	10,000	1,200	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

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N/A—Soil to groundwater values cannot be calculated for these compounds

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
FORMIC ACID	64-18-6	0.063	0.0071	E	0.26	0.029	E	6.3	0.71	E	26	2.9	E	0.63	0.071	E	2.6	0.29	E	NA
FOSETYL-AL	39148-24-8	8,700	7,700	E	24,000	21,000	E	190,000	190,000	C	190,000	190,000	C	8,700	7,700	E	24,000	21,000	E	NA
FURAN	110-00-9	3.5	1.5	E	9.7	4.2	E	350	150	E	970	420	E	350	150	E	970	420	E	NA
FURFURAL	98-01-1	1.9	0.24	E	7.8	0.99	E	190	24	E	780	99	E	1.9	0.24	E	7.8	0.99	E	NA
GLYPHOSATE	1071-83-6	70	620	E	70	620	E	7,000	62,000	E	7,000	62,000	E	70	620	E	70	620	E	15
HEPTACHLOR	76-44-8	0.04	0.68	E	0.04	0.68	E	4	68	E	4	68	E	18	310	E	18	310	E	15
HEPTACHLOR EPOXIDE	1024-57-3	0.02	1.1	E	0.02	1.1	E	2	110	E	2	110	E	20	1,100	E	20	1,100	E	10
HEXACHLORO BENZENE	118-74-1	0.1	0.96	E	0.1	0.96	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	15
HEXACHLOROBUTADIENE	87-68-3	0.84	10	E	3.5	42	E	84	1,000	E	290	3,400	E	290	3,400	E	290	3,400	E	15
HEXACHLOROCYCLOPENTADIENE	77-47-4	5	91	E	5	91	E	180	3,300	E	180	3,300	E	180	3,300	E	180	3,300	E	15
HEXACHLOROETHANE	67-72-1	0.1	0.56	E	0.1	0.56	E	10	56	E	10	56	E	10	56	E	10	56	E	15
HEXAFLUOROPROPYLENE OXIDE (HFPO) DIMER ACID	13252-13-6	0.001	N/A		0.001	N/A		0.1	N/A		0.1	N/A		0.001	N/A		0.001	N/A		NA
HEXAFLUOROPROPYLENE OXIDE (HFPO) DIMER ACID AMMONIUM SALT	62037-80-3	0.001	N/A		0.001	N/A		0.1	N/A		0.1	N/A		0.001	N/A		0.001	N/A		NA
HEXANE	110-54-3	150	1,400	E	580	5,300	E	950	8,700	E	950	8,700	E	150	1,400	E	580	5,300	E	15
HEXAZINONE	51235-04-2	40	8.5	E	40	8.5	E	4,000	850	E	4,000	850	E	40	8.5	E	40	8.5	E	NA
HEXYTHIAZOX (SAVEY)	78587-05-0	50	820	E	50	820	E	50	820	E	50	820	E	50	820	E	50	820	E	15
HMX	2691-41-0	40	4.8	E	40	4.8	E	500	60	E	500	60	E	40	4.8	E	40	4.8	E	NA
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.001	0.00011	E	0.0051	0.00057	E	0.1	0.011	E	0.51	0.057	E	0.01	0.0011	E	0.051	0.0057	E	NA
HYDROQUINONE	123-31-9	1.1	0.15	E	4.5	0.61	E	110	15	E	450	61	E	1,100	150	E	4,500	610	E	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.018] 0.21	[1,400] 16,000	E	[0.23] 2.7	[18,000] 190,000	[E]] C	[1.8] 6.2	[140,000] 190,000	[E]] C	6.2	190,000	C	6.2	190,000	C	6.2	190,000	C	5
IPRODIONE	36734-19-7	1.5	4.3	E	6.2	18	E	150	430	E	620	1,800	E	1.5	4.3	E	6.2	18	E	20
ISOBUTYL ALCOHOL	78-83-1	1,000	260	E	2,900	760	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ISOPHORONE	78-59-1	10	1.9	E	10	1.9	E	1,000	190	E	1,000	190	E	10,000	1,900	E	10,000	1,900	E	NA
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	70	8.1	E	70	8.1	E	7,000	810	E	7,000	810	E	70	8.1	E	70	8.1	E	NA
KEPONE	143-50-0	0.0065	0.89	E	0.027	3.7	E	0.65	89	E	2.7	370	E	6.5	890	E	27	3,700	E	10
MALATHION	121-75-5	50	170	E	50	170	E	5,000	10,000	C	5,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
MALEIC HYDRAZIDE	123-33-1	400	47	E	400	47	E	40,000	4,700	E	40,000	4,700	E	400	47	E	400	47	E	NA
MANEB	12427-38-2	1.1	0.12	E	4.5	0.51	E	110	12	E	450	51	E	1.1	0.12	E	4.5	0.51	E	NA
MERPHOS OXIDE	78-48-8	1.7	230	E	4.9	650	E	170	10,000	C	230	10,000	C	1.7	230	E	4.9	650	E	10
METHACRYLONITRILE	126-98-7	0.35	0.057	E	0.97	0.16	E	35	5.7	E	97	16	E	0.35	0.057	E	0.97	0.16	E	NA
METHAMIDOPHOS	10265-92-6	0.17	0.021	E	0.49	0.061	E	17	2.1	E	49	6.1	E	0.17	0.021	E	0.49	0.061	E	NA
METHANOL	67-56-1	4,200	500	E	10,000	2,100	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
METHOMYL	16752-77-5	20	3.2	E	20	3.2	E	2,000	320	E	2,000	320	E	20	3.2	E	20	3.2	E	NA
METHOXYCHLOR	72-43-5	4	630	E	4	630	E	4.5	710	E	4.5	710	E	4.5	710	E	4.5	710	E	10
METHOXYETHANOL, 2-	109-86-4	[4.2] 1.5	[0.48] 0.17	E	[18] 6.2	[2] 0.7	E	[420] 150	[48] 17	E	[1,800] 620	[200] 70	E	[42] 15	[4.8] 1.7	E	[180] 62	[20] 7	E	NA
METHYL ACETATE	79-20-9	3,500	650	E	9,700	1,800	E	10,000	10,000	C	10,000	10,000	C	3,500	650	E	9,700	1,800	E	NA
METHYL ACRYLATE	96-33-3	4.2	1	E	18	4.5	E	420	100	E	1,800	450	E	420	100	E	1,800	450	E	NA
METHYL CHLORIDE	74-87-3	3	0.38	E	3	0.38	E	300	38	E	300	38	E	300	38	E	300	38	E	NA
METHYL ETHYL KETONE	78-93-3	400	76	E	400	76	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	NA
METHYL HYDRAZINE	60-34-4	0.0042	0.00048	E	0.018	0.002	E	0.42	0.048	E	1.8	0.2	E	0.042	0.0048	E	0.18	0.02	E	NA
METHYL ISOBUTYL KETONE	108-10-1	280	43	E	780	120	E	10,000	4,300	E	10,000	10,000	C	10,000	4,300	E	10,000	10,000	C	NA
METHYL ISOCYANATE	624-83-9	0.21	0.029	E	0.88	0.12	E	21	2.9	E	88	12	E	0.21	0.029	E	0.88	0.12	E	NA
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	6.3	1.6	E	26	6.4	E	630	160	E	2,600	640	E	6.3	1.6	E	26	6.4	E	NA
METHYL METHACRYLATE	80-62-6	150	20	E	620	84	E	10,000	2,000	E	10,000	8,400	E	10,000	2,000	E	10,000	8,400	E	NA
METHYL METHANESULFONATE	66-27-3	0.66	0.082	E	2.7	0.34	E	66	8.2	E	270	34	E	0.66	0.082	E	2.7	0.34	E	NA
METHYL PARATHION	298-00-0	0.1	0.21	E	0.1	0.21	E	10	21	E	10	21	E	100	210	E	100	210	E	30
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	8.4	47	E	35	200	E	840	4,700	E	3,500	10,000	C	8.4	47	E	35	200	E	15
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2	0.28	E	2	0.28	E	200	28	E	200	28	E	20	2.8	E	20	2.8	E	NA
METHYLCHLOROPHOXYACETIC ACID (MCPA)	94-74-6	3	1.2	E	3	1.2	E	300	120	E	300	120	E	3,000	1,200	E	3,000	1,200	E	NA
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	0.21	1.6	E	2.7	21	E	21	160	E	270	2,100	E	0.21	1.6	E	2.7	21	E	15
METHYLNAPHTHALENE, 2-	91-57-6	0.63	25	E	2.6	100	E	63	2,500	E	260	10,000	E	0.63	25	E	2.6	100	E	15
METHYLSTYRENE, ALPHA	98-83-9	240	420	E	680	1,200	E	10,000	10,000	C	10,000	10,000	C	240	420	E	680	1,200	E	30
METOLACHLOR	51218-45-2	70	40	E	70	40	E	7,000	4,000	E	7,000	4,000	E	70	40	E	70	40	E	NA
METRIBUZIN	21087-64-9	7	2.4	E	7	2.4	E	700	240	E	700	240	E	7	2.4	E	7	2.4	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
MEVINPHOS	7786-34-7	0.087	0.019	E	0.24	0.053	E	8.7	1.9	E	24	5.3	E	0.087	0.019	E	0.24	0.053	E	NA
MONOCHLOROACETIC ACID (HAA)	79-11-8	6	0.67	E	6	0.67	E	600	67	E	600	67	E	6	0.67	E	6	0.67	E	NA
NAPHTHALENE	91-20-3	10	25	E	10	25	E	1,000	2,500	E	1,000	2,500	E	1,000	2,500	E	1,000	2,500	E	30
NAPHTHYLAMINE, 1-	134-32-7	0.036	0.29	E	0.15	1.2	E	3.6	29	E	15	120	E	3.6	29	E	15	120	E	15
NAPHTHYLAMINE, 2-	91-59-8	0.036	0.012	E	0.15	0.049	E	3.6	1.2	E	15	4.9	E	36	12	E	150	49	E	NA
NAPROPAMIDE	15299-99-7	420	970	E	1,200	2,800	E	7,000	16,000	E	7,000	16,000	E	420	970	E	1,200	2,800	E	30
NITROANILINE, O-	88-74-4	0.011	0.002	E	0.044	0.0079	E	1.1	0.2	E	4.4	0.79	E	0.011	0.002	E	0.044	0.0079	E	NA
NITROANILINE, P-	100-01-6	3.3	0.49	E	14	2.1	E	330	49	E	1,400	210	E	3.3	0.49	E	14	2.1	E	NA
NITROBENZENE	98-95-3	0.12	0.052	E	0.63	0.27	E	12	5.2	E	63	27	E	12	5.2	E	63	27	E	NA
																				[C] [E]
NITROGUANIDINE	556-88-7	70	7.8	E	70	7.8	E	7,000	780	E	7,000	780	E	70	7.8	E	70	7.8	E	NA
NITROPHENOL, 2-	88-75-5	28	5.7	E	78	16	E	2,800	570	E	7,800	1,600	E	2,800	570	E	7,800	1,600	E	NA
NITROPHENOL, 4-	100-02-7	6	4.1	E	6	4.1	E	600	410	E	600	410	E	600	410	E	600	410	E	NA
NITROPROPANE, 2-	79-46-9	[0.0018] 0.0084	[0.00029] 0.0014	E	[0.0093] 0.043	[0.0015] 0.0069	E	[0.18] 0.84	[0.029] 0.14	E	[0.93] 4.3	[0.15] 0.69	E	[0.018] 0.084	[0.0029] 0.014	E	[0.093] 0.43	[0.015] 0.069	E	NA
NITROSODIETHYLAMINE, N-	55-18-5	0.000045	0.0000079	E	0.00058	0.0001	E	0.0045	0.00079	E	0.058	0.01	E	0.00045	0.000079	E	0.0058	0.001	E	NA
NITROSODIMETHYLAMINE, N-	62-75-9	0.00014	0.000019	E	0.0018	0.00024	E	0.014	0.0019	E	0.18	0.024	E	0.0014	0.00019	E	0.018	0.0024	E	NA
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	0.0031	0.0038	E	0.016	0.02	E	0.31	0.38	E	1.6	2	E	0.31	0.38	E	1.6	2	E	NA
NITROSODI-N-PROPYLAMINE, N-	621-64-7	0.0025	0.00035	E	0.013	0.0018	E	0.25	0.035	E	1.3	0.18	E	0.025	0.0035	E	0.13	0.018	E	NA
NITROSODIPHENYLAMINE, N-	86-30-6	1.9	3	E	9.6	15	E	190	300	E	960	1,500	E	190	300	E	960	1,500	E	30
NITROSO-N-ETHYLUREA, N-	759-73-9	0.00079	0.000091	E	0.01	0.0012	E	0.079	0.0091	E	1	0.12	E	0.79	0.091	E	10	1.2	E	NA
OCTYL PHTHALATE, DI-N-	117-84-0	35	10,000	C	97	10,000	C	300	10,000	C	300	10,000	C	300	10,000	C	300	10,000	C	5
OXAMYL (VYDATE)	23135-22-0	20	2.6	E	20	2.6	E	2,000	260	E	2,000	260	E	20	2.6	E	20	2.6	E	NA
PARAQUAT	1910-42-5	3	120	E	3	120	E	300	12,000	E	300	12,000	E	3	120	E	3	120	E	15
PARATHION	56-38-2	0.1	0.59	E	0.29	1.7	E	10	59	E	29	170	E	0.1	0.59	E	0.29	1.7	E	15
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	1336-36-3	0.05	9.8	E	0.05	9.8	E	5	980	E	5	980	E	0.05	9.8	E	0.05	9.8	E	10
PCB-1016 (AROCLOR)	12674-11-2	0.24	66	E	0.68	190	E	24	6,600	E	25	6,900	E	0.24	66	E	0.68	190	E	10
PCB-1221 (AROCLOR)	11104-28-2	0.033	0.16	E	0.14	0.68	E	3.3	16	E	14	68	E	0.033	0.16	E	0.14	0.68	E	20

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All concentrations in mg/kg

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
PCB-1232 (AROCLOR)	11141-16-5	0.033	0.13	E	0.14	0.54	E	3.3	13	E	14	54	E	0.033	0.13	E	0.14	0.54	E	20
PCB-1242 (AROCLOR)	53469-21-9	0.033	4	E	0.14	17	E	3.3	400	E	10	1,200	E	0.033	4	E	0.14	17	E	10
PCB-1248 (AROCLOR)	12672-29-6	0.033	16	E	0.14	67	E	3.3	1,600	E	5.4	2,600	E	0.033	16	E	0.14	67	E	10
PCB-1254 (AROCLOR)	11097-69-1	0.069	140	E	0.19	380	E	5.7	10,000	C	5.7	10,000	C	0.069	140	E	0.19	380	E	5
PCB-1260 (AROCLOR)	11096-82-5	0.033	150	E	0.14	630	E	3.3	15,000	E	8	36,000	E	0.033	150	E	0.14	630	E	5
PEBULATE	1114-71-2	[170] 2.4	[290] 4	E	[490] 6.8	[830] 11	E	[9,200] 240	[10,000] 400	[C] E	[9,200] 680	[10,000] 1,100	[C] E	[170] 2.4	[290] 4	E	[490] 6.8	[830] 11	E	30
PENTACHLOROBENZENE	608-93-5	2.8	220	E	7.8	620	E	74	5,900	E	74	5,900	E	74	5,900	E	74	5,900	E	10
PENTACHLOROETHANE	76-01-7	0.72	3.5	E	3	15	E	72	350	E	300	1,500	E	0.72	3.5	E	3	15	E	20
PENTACHLORO NITROBENZENE	82-68-8	0.25	5	E	1	20	E	25	500	E	44	870	E	44	870	E	44	870	E	15
PENTACHLOROPHENOL	87-86-5	0.1	5	E	0.1	5	E	10	500	E	10	500	E	100	5,000	E	100	5,000	E	10
PERFLUOROBUTANOIC ACID (PFBA)	375-22-4	3.5	N/A		9.7	N/A		350	N/A		970	N/A		3.5	N/A		9.7	N/A		NA
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	[1] 0.2	N/A		[2.9] 0.2	N/A		[100] 20	N/A		[290] 20	N/A		[1] 0.2	N/A		[2.9] 0.2	N/A		NA
PERFLUOROOCANE SULFONATE (PFOS)	1763-23-1	0.007	N/A		0.007	N/A		0.7	N/A		0.7	N/A		0.007	N/A		0.007	N/A		NA
PERFLUOROOCANOIC ACID (PFOA)	335-67-1	0.007	N/A		0.007	N/A		0.7	N/A		0.7	N/A		[0.007]	[N/A]		[0.007]	[N/A]		[NA]
PHENACETIN	62-44-2	30	12	E	120	46	E	3,000	1,200	E	12,000	4,600	E	30,000	12,000	E	76,000	29,000	E	NA
PHENANTHRENE	85-01-8	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	10
PHENOL	108-95-2	200	33	E	200	33	E	20,000	3,300	E	20,000	3,300	E	20,000	3,300	E	20,000	3,300	E	NA
PHENYL MERCAPTAN	108-98-5	3.5	5.3	E	9.7	15	E	350	530	E	970	1,500	E	3.5	5.3	E	9.7	15	E	30
PHENYLENEDIAMINE, M-	108-45-2	21	3	E	58	8.2	E	2,100	300	E	5,800	820	E	21,000	3,000	E	58,000	8,200	E	NA
PHENYLPHENOL, 2-	90-43-7	34	490	E	140	2,000	E	3,400	49,000	E	14,000	190,000	C	34,000	190,000	C	70,000	190,000	C	15
PHORATE	298-02-2	[0.69] 0.59	[1.5] 1.3	E	[1.9] 1.7	[4.1] 3.6	E	[69] 59	[150] 130	E	[190] 170	[410] 360	E	[0.69] 0.59	[1.5] 1.3	E	[1.9] 1.7	[4.1] 3.6	E	30
PHTHALIC ANHYDRIDE	85-44-9	4.2	1.3	E	18	5.6	E	420	130	E	1,800	560	E	420	130	E	1,800	560	C	NA
PICLORAM	1918-02-1	50	7.4	E	50	7.4	E	5,000	740	E	5,000	740	E	50	7.4	E	50	7.4	E	NA
POTASSIUM PERFLUOROBUTANE SULFONATE	29420-49-3	0.2	N/A		0.2	N/A		20	N/A		20	N/A		0.2	N/A		0.2	N/A		NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
PROMETON	1610-18-0	40	39	E	40	39	E	4,000	3,900	E	4,000	3,900	E	40	39	E	40	39	E	NA
PRONAMIDE	23950-58-5	260	160	E	730	450	E	1,500	920	E	1,500	920	E	260	160	E	730	450	E	NA
PROPACHLOR	1918-16-7	0.01	0.0046	E	0.01	0.0046	E	1	0.46	E	1	0.46	E	1	0.46	E	1	0.46	E	NA
PROPANIL	709-98-8	17	8.7	E	49	25	E	1,700	870	E	4,900	2,500	E	17	8.7	E	49	25	E	NA
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	42	7.3	E	180	31	E	4,200	730	E	10,000	3,100	E	42	7.3	E	180	31	E	NA
PROPAZINE	139-40-2	1	0.5	E	1	0.5	E	100	50	E	100	50	E	1	0.5	E	1	0.5	E	NA
PROPHAM	122-42-9	10	2.4	E	10	2.4	E	1,000	240	E	1,000	240	E	10	2.4	E	10	2.4	E	NA
PROPYLBENZENE, N-	103-65-1	210	400	E	880	1,700	E	5,200	9,900	E	5,200	9,900	E	210	400	E	880	1,700	E	30
PROPYLENE OXIDE	75-56-9	0.27	0.047	E	1.1	0.19	E	27	4.7	E	110	19	E	0.27	0.047	E	1.1	0.19	E	NA
PYRENE	129-00-0	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	10
PYRETHRUM	8003-34-7	35	4.4	E	35	4.4	E	35	4.4	E	35	4.4	E	35	4.4	E	35	4.4	E	NA
PYRIDINE	110-86-1	[3.4] 3.5	0.39	E	9.7	1.1	E	350	39	E	970	110	E	35	3.9	E	97	11	E	NA
QUINOLINE	91-22-5	0.022	0.074	E	0.091	0.31	E	2.2	7.4	E	9.1	31	E	22	74	E	91	310	E	20
QUIZALOFOP (ASSURE)	76578-14-8	30	47	E	30	47	E	30	47	E	30	47	E	30	47	E	30	47	E	30
RDX	121-82-4	0.2	0.057	E	0.2	0.057	E	20	5.7	E	20	5.7	E	0.2	0.057	E	0.2	0.057	E	NA
RESORCINOL	108-46-3	6,900	800	E	19,000	2,200	E	190,000	80,000	E	190,000	190,000	C	6,900	800	E	19,000	2,200	E	NA
RONNEL	299-84-3	170	270	E	490	760	E	4,000	6,200	E	4,000	6,200	E	170	270	E	490	760	E	30
SIMAZINE	122-34-9	0.4	0.15	E	0.4	0.15	E	40	15	E	40	15	E	0.4	0.15	E	0.4	0.15	E	NA
STRYCHNINE	57-24-9	1	0.81	E	2.9	2.4	E	100	81	E	290	240	E	1,000	810	E	2,900	2,400	E	NA
STYRENE	100-42-5	10	24	E	10	24	E	1,000	2,400	E	1,000	2,400	E	1,000	2,400	E	1,000	2,400	E	30
TEBUTHIURON	34014-18-1	50	83	E	50	83	E	5,000	8,300	E	5,000	8,300	E	50	83	E	50	83	E	30
TERBACIL	5902-51-2	9	2.2	E	9	2.2	E	900	220	E	900	220	E	9	2.2	E	9	2.2	E	NA
TERBUFOS	13071-79-9	0.04	0.055	E	0.04	0.055	E	4	5.5	E	4	5.5	E	0.04	0.055	E	0.04	0.055	E	30
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	[1] 0.1	[4.6] 0.46	E	[2.9] 0.29	[13] 1.3	E	[58] 10	[270] 46	E	[58] 29	[270] 130	E	58	270	E	58	270	E	20
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.000003	0.032	E	0.000003	0.032	E	0.0003	3.2	E	0.0003	3.2	E	0.0019	20	E	0.0019	20	E	5
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	7	18	E	7	18	E	700	1,800	E	700	1,800	E	700	1,800	E	700	1,800	E	30
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.084	0.026	E	0.43	0.13	E	8.4	2.6	E	43	13	E	8.4	2.6	E	43	13	E	NA
TETRACHLOROETHYLENE (PCE)	127-18-4	0.5	0.43	E	0.5	0.43	E	50	43	E	50	43	E	5	4.3	E	5	4.3	E	NA

¹ For other options see § 250.308 (relating to soil to groundwater pathway numeric values).

All concentrations in mg/kg

E—Number calculated by the soil to groundwater equation in § 250.308

C—Cap

NA—The soil buffer distance option is not available for this substance

N/A—Soil to groundwater values cannot be calculated for these compounds

Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers						Soil Buffer Distance (feet)		
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential			Nonresidential					
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value		E	
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	100	1,600	E	290	4,500	E	10,000	160,000	E	18,000	190,000	C	18,000	190,000	C	18,000	190,000	C	15
TETRAETHYL LEAD	78-00-2	0.00035	0.0043	E	0.00097	0.012	E	0.035	0.43	E	0.097	1.2	E	0.35	4.3	E	0.97	12	E	15
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	1.7	2.5	E	4.9	7.3	E	170	250	E	490	730	E	1.7	2.5	E	4.9	7.3	E	30
TETRAHYDROFURAN	109-99-9	2.5	0.55	E	13	2.8	E	250	55	E	1,300	280	E	2.5	0.55	E	13	2.8	E	NA
THIOFANOX	39196-18-4	1	0.11	E	2.9	0.32	E	100	11	E	290	32	E	1	0.11	E	2.9	0.32	E	NA
THIRAM	137-26-8	52	140	E	150	390	E	3,000	7,800	E	3,000	7,800	E	52	140	E	150	390	E	20
TOLUENE	108-88-3	100	44	E	100	44	E	10,000	4,400	E	10,000	4,400	E	10,000	4,400	E	10,000	4,400	E	NA
TOLUIDINE, M-	108-44-1	4.1	1.9	E	17	7.8	E	410	190	E	1,700	780	E	4.1	1.9	E	17	7.8	E	NA
TOLUIDINE, O-	95-53-4	4.1	4.7	E	17	19	E	410	470	E	1,700	1,900	E	4,100	4,700	E	10,000	10,000	C	NA
TOLUIDINE, P-	106-49-0	2.2	2	E	9.1	8.3	E	220	200	E	910	830	E	2.2	2	E	9.1	8.3	E	NA
TOXAPHENE	8001-35-2	0.3	1.2	E	0.3	1.2	E	30	120	E	30	120	E	0.3	1.2	E	0.3	1.2	E	20
TRIALATE	2303-17-5	[0.091] 0.91	[0.47] 4.7	E	[0.38] 3.8	[1.9] 19	E	[9.1] 91	[47] 470	E	[38] 380	[190] 1,900	E	[0.091] 0.91	[0.47] 4.7	E	[0.38] 3.8	[1.9] 19	E	15
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	8	3.5	E	8	3.5	E	800	350	E	800	350	E	800	350	E	800	350	E	NA
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	1,100	3,400	E	4,400	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
TRICHLOROACETIC ACID (HAA)	76-03-9	6	0.97	E	6	0.97	E	600	97	E	600	97	E	6	0.97	E	6	0.97	E	NA
TRICHLOROBENZENE, 1,2,4-	120-82-1	7	27	E	7	27	E	700	2,700	E	700	2,700	E	700	2,700	E	700	2,700	E	20
TRICHLOROBENZENE, 1,3,5-	108-70-3	4	31	E	4	31	E	400	3,100	E	400	3,100	E	4	31	E	4	31	E	15
TRICHLOROETHANE, 1,1,1-	71-55-6	20	7.2	E	20	7.2	E	2,000	720	E	2,000	720	E	200	72	E	200	72	E	NA
TRICHLOROETHANE, 1,1,2-	79-00-5	0.5	0.15	E	0.5	0.15	E	50	15	E	50	15	E	5	1.5	E	5	1.5	E	NA
TRICHLOROETHYLENE (TCE)	79-01-6	0.5	0.17	E	0.5	0.17	E	50	17	E	50	17	E	5	1.7	E	5	1.7	E	NA
TRICHLOROPHENOL, 2,4,5-	95-95-4	350	2,100	E	970	5,900	E	35,000	190,000	C	97,000	190,000	C	100,000	190,000	C	100,000	190,000	C	15
TRICHLOROPHENOL, 2,4,6-	88-06-2	3.5	10	E	9.7	28	E	350	1,000	E	970	2,800	E	3,500	10,000	E	9,700	28,000	E	20
TRICHLOROPHENOXY ACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	7	1.5	E	7	1.5	E	700	150	E	700	150	E	7,000	1,500	E	7,000	1,500	E	NA
TRICHLOROPHENOXY PROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	5	22	E	5	22	E	500	2,200	E	500	2,200	E	5	22	E	5	22	E	20
TRICHLOROPROPANE, 1,1,2-	598-77-6	17	2.9	E	49	8.4	E	1,700	290	E	4,900	840	E	17	2.9	E	49	8.4	E	NA
TRICHLOROPROPANE, 1,2,3-	96-18-4	4	3.2	E	4	3.2	E	400	320	E	400	320	E	400	320	E	400	320	E	NA
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.063	0.037	E	0.26	0.15	E	6.3	3.7	E	26	15	E	0.063	0.037	E	0.26	0.15	E	NA

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All concentrations in mg/kg

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Appendix A
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	E		100 X GW MSC	Generic Value	E	
TRIETHYLAMINE	121-44-8	1.5	0.36	E	6.2	1.5	E	150	36	E	620	150	E	1.5	0.36	E	6.2	1.5	E	NA
TRIETHYLENE GLYCOL	112-27-6	6,900	870	E	10,000	2,400	E	10,000	10,000	C	10,000	10,000	C	6,900	870	E	10,000	2,400	E	NA
TRIFLURALIN	1582-09-8	1	1.9	E	1	1.9	E	100	190	E	100	190	E	1	1.9	E	1	1.9	E	30
TRIMETHYLBENZENE, 1,3,4-(TRIMETHYLBENZENE, 1,2,4-)	95-63-6	13	73	E	53	300	E	1,300	7,300	E	5,300	10,000	C	1,300	7,300	E	5,300	10,000	C	15
TRIMETHYLBENZENE, 1,3,5-	108-67-8	13	23	E	53	93	E	1,300	2,300	E	4,900	8,600	E	13	23	E	53	93	E	30
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.5	0.2	E	0.5	0.2	E	50	20	E	50	20	E	50	20	E	50	20	E	NA
TRINITROTOLUENE, 2,4,6-	118-96-7	0.2	0.023	E	0.2	0.023	E	20	2.3	E	20	2.3	E	0.2	0.023	E	0.2	0.023	E	NA
VINYL ACETATE	108-05-4	42	5	E	180	21	E	4,200	500	E	10,000	2,100	E	42	5	E	180	21	E	NA
VINYL BROMIDE (BROMOETHENE)	593-60-2	[0.15] 0.33	[0.073] 0.16	E	[0.78] 1.7	[0.38] 0.83	E	[15] 33	[7.3] 16	E	[78] 170	[38] 83	E	[1.5] 3.3	[0.73] 1.6	E	[7.8] 17	[3.8] 8.3	E	NA
VINYL CHLORIDE	75-01-4	0.2	0.027	E	0.2	0.027	E	20	2.7	E	20	2.7	E	2	0.27	E	2	0.27	E	NA
WARFARIN	81-81-2	1	2.4	E	2.9	6.9	E	100	240	E	290	690	E	1,000	2,400	E	1,700	4,100	E	30
XYLENES (TOTAL)	1330-20-7	1,000	990	E	1,000	990	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ZINEB	12122-67-7	170	27	E	490	78	E	1,000	160	E	1,000	160	E	170	27	E	490	78	E	NA

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All concentrations in mg/kg

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