

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						TDS > 2500						Residential		Nonresidential				
		Residential			Nonresidential			Residential			Nonresidential			Residential		Nonresidential				
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
ACENAPHTHENE	83-32-9	[220] 250	[2,700] 3,100	E	380	4,700	E	380	4,700	E	380	4,700	E	380	4,700	E	380	4,700	E	15
ACENAPHTHYLENE	208-96-8	[220] 250	[2,500] 2,800	E	[610] 700	[6,900] 8,000	E	1,600	18,000	E	1,600	18,000	E	1,600	18,000	E	1,600	18,000	E	15
ACEPHATE	30560-19-1	[7.6] 8.4	[0.9] 1.0	E	[30] 39	[3.6] 4.6	E	[760] 840	[90] 100	E	[3,000] 3,900	[360] 460	E	[7.6] 8.4	[0.9] 1.0	E	[30] 39	[3.6] 4.6	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	7.9	0.96	E	NA
ACETONE	67-64-1	[3,300] 3,800	[370] 430	E	[9,20] 0 10.00 0	[1,000] 1,200	E	10,000	10,000	C	10,000	10,000	C	10,000	[3,700] 4,300	E	10,000	10,000	C	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	[370] 420	[200] 230	E	[1,00] 0 1,200	[540] 640	E	10,000	10,000	C	10,000	10,000	C	[370] 420	[200] 230	E	[1,000] 1,200	[540] 640	E	NA
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	[0.017] 0.019	[0.07] 0.08	E	[0.06] 8 0.089	[0.28] 0.37	E	[1.7] 1.9	[7] 8	E	[6.8] 8.9	[28] 37	E	[17] 19	[70] 78	E	[68] 89	[280] 370	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	[0.0038] 0.019	[0.0006] 0.0033	E	[0.01] 9 0.25	[0.003] 0.043	E	[0.4] 1.9	[0.07] 0.33	E	[1.9] 25	[0.33] 4.3	E	[0.004] 0.019	[0.000] 7 0.0033	E	[0.019] 0.25	[0.003] 3 0.043	E	NA
ACRYLIC ACID	79-10-7	0.21	0.039	E	0.88	0.16	E	21	3.9	E	88	16	E	21	3.9	E	88	16	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	[0.0039] 0.0043	[0.47] 0.52	E	[0.01] 5 0.02	[1.8] 2.4	E	[0.39] 0.43	[47] 52	E	[1.5] 2.0	[180] 240	E	2	240	E	2	240	E	10
ALLYL ALCOHOL	107-18-6	[0.063] 0.021	[0.0075] 0.0025	E	[0.26] 0.088	[0.031] 0.01	E	[6.3] 2.1	[0.75] 0.25	E	[26] 9	[3.1] 1	E	[6.3] 2.1	[0.75] 0.25	E	[26] 9	[3.1] 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

¹ For other options see Section 250.308

All concentrations in mg/kg

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		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
AMINOBIIPHENYL, 4-	92-67-1	[0.0031]] <u>0.0035</u>	[0.0012]] <u>0.0014</u>	E	[0.012]] <u>0.016</u>	[0.0046]] <u>0.0062</u>	E	[0.31]] <u>0.35</u>	[0.12]] <u>0.14</u>	E	[1.2]] <u>1.6</u>	[0.46]] <u>0.62</u>	E	[3.1]] <u>3.5</u>	[1.2]] <u>1.4</u>	E	[12]] <u>16</u>	[4.6]] <u>6.2</u>	E	NA
AMITROLE	61-82-5	[0.07]] <u>0.078</u>	[0.029]] <u>0.032</u>	E	[0.28]] <u>0.36</u>	[0.12]] <u>0.15</u>	E	[7]] <u>8</u>	[2.9]] <u>3.2</u>	E	[28]] <u>36</u>	[12]] <u>15</u>	E	[70]] <u>78</u>	[29]] <u>32</u>	E	[280]] <u>360</u>	[120]] <u>150</u>	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	[11]] <u>13</u>	[12]] <u>15</u>	E	[31]] <u>35</u>	[35]] <u>40</u>	E	[1,100]] <u>1,300</u>	[1,200]] <u>1,500</u>	E	[3,100]] <u>3,200</u>	[3,500]] <u>3,600</u>	E	[11]] <u>13</u>	[12]] <u>15</u>	E	[31]] <u>35</u>	[35]] <u>40</u>	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	[180]] <u>200</u>	[880]] <u>970</u>	E	200	970	E	200	970	E	200	970	E	[180]] <u>200</u>	[880]] <u>970</u>	E	200	970	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
BENZIDINE	92-87-5	[0.0000]] <u>0.0000</u> <u>98</u>	[0.12]] <u>0.13</u>	E	[0.00]] <u>0.001</u> <u>5</u>	[1.5]] <u>2</u>	E	[0.0093]] <u>0.0098</u>	[12]] <u>13</u>	E	[0.11]] <u>0.15</u>	[150]] <u>200</u>	E	[0.093]] <u>0.098</u>	[120]] <u>130</u>	E	[1.1]] <u>1.5</u>	[1,500]] <u>2,000</u>	E	5
BENZO[A]ANTHRACENE	56-55-3	[0.029]] <u>0.032</u>	[25]] <u>28</u>	E	[0.36]] <u>0.49</u>	[320]] <u>430</u>	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	[0.029]] <u>0.031</u>	[40]] <u>43</u>	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	0.055	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	[15,000]] <u>17,000</u>	[2,900]] <u>3,200</u>	E	[41,000]] <u>47,000</u> <u>0</u>	[7,800]] <u>9,000</u>	E	190,000	52,000	E	190,000	52,000	E	[15,000]] <u>17,000</u>	[2,900]] <u>3,200</u>	E	[41,000]] <u>47,000</u>	[7,800]] <u>9,000</u>	E	NA

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		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
BENZOTRICHLORIDE	98-07-7	[0.0051]] 0.0056	[0.012] 0.014	E	[0.02] 0.026	[0.048] 0.063	E	[0.51] 0.56	[1.2] 1.4	E	[2] 3	[4.8] 6.3	E	[5.1] 5.6	[12] 14	E	[20] 26	[48] 63	E	30
BENZYL ALCOHOL	100-51-6	[1,800] 420	[650] 150	E	[5,10 0] 1,200	[1,800] 430	E	10,000	10,000	C	10,000	10,000	C	[1,800] 420	[650] 150	E	[5,100]] 1,200	[1,800] 430	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	0.006 3	0.0007 6	E	0.1	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] 0.012	[0.046] 0.055	E	[0.04 1] 0.054	[0.19] 0.25	E	1	[4.6] 5.5	E	[4.1] 5.4	[19] 25	E	[10] 12	[46] 55	E	[41] 54	[190] 250	E	20
BHC, BETA-	319-85-7	[0.037] 0.041	[0.22] 0.24	E	[0.14] 0.19	[0.82] 1.1	E	[3.7] 4.1	[22] 24	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	[180] 9.1	[790] 40	E	[510] 43	[2,200] 190	E	720	3,100	E	720	3,100	E	720	3,100	E	720	3,100	E	20
BIS(2-CHLOROETHOXY) METHANE	111-91-1	[11] 13	[2.9] 3.4	E	[31] 35	[8.2] 9.2	E	[1,100] 1,300	[290] 340	E	[3,100] 3,500	[820] 920	E	[11] 13	[2.9] 3.4	E	[31] 35	[8.2] 9.2	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-CHLOROISOPROPYL)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)ETHE R	542-88-1	0.0000 79	0.000012	E	0.000 4	0.0000 6	E	0.0079	0.001	E	0.04	0.006	E	0.0079	0.001	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	[180] 210	[700] 810	E	[510] 580	[2,000] 2,200	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
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

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		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
BROMOXYNIL	1689-84-5	[73] 83	[63] 71	E	[200] 230	[170] 200	E	[7,300] 8,300	[6,300] 7,100	E	13,000	11,000	E	[73] 83	[63] 71	E	[200] 230	[170] 200	E	NA
BROMOXYNIL OCTANOATE	1689-99-2	8	360	E	8	360	E	8	360	E	8	360	E	8	360	E	8	360	E	15
BUTADIENE, 1,3-	106-99-0	[0.019] 0.021	[0.0078] 0.0086	E	[0.07] 0.1	[0.031] 0.041	E	[1.9] 2.1	[0.78] 0.86	E	[7.6] 10	[3.1] 4.1	E	[1.9] 2.1	[0.78] 0.86	E	[7.6] 10	[3.1] 4.1	E	NA
BUTYL ALCOHOL, N-	71-36-3	[370] 420	[44] 50	E	[1,00] 1,200	[120] 140	E	10,000	[4,400] 5,000	E	10,000	10,000	C	[3,700] 4,200	[440] 500	E	10,000	[1,200] 1,400	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	[150] 210	[950] 1,300	E	[410] 580	[2,600] 3,700	E	1,500	9,500	E	1,500	9,500	E	[150] 210	[950] 1,300	E	[410] 580	[2,600] 3,700	E	15
BUTYLBENZENE, SEC-	135-98-8	[150] 420	[350] 980	E	[410] 1,200	[960] 2,800	E	1,700	4,000	E	1,700	4,000	E	[150] 420	[350] 980	E	[410] 1,200	[960] 2,800	E	30
BUTYLBENZENE, TERT-	98-06-6	[150] 420	[270] 760	E	[410] 1,200	[740] 2,200	E	3,000	5,400	E	3,000	5,400	E	[150] 420	[270] 760	E	[410] 1,200	[740] 2,200	E	30
BUTYLBENZYL PHTHALATE	85-68-7	[35] 38	[3,000] 3,200	E	[140] 180	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	10
CAPTAN	133-06-2	[29] 32	[18] 20	E	50	31	E	50	31	E	50	31	E	50	31	E	50	31	E	NA
CARBARYL	63-25-2	[370] 420	[220] 250	E	[1,00] 1,200	[590] 700	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] 3.7	[21] 24	E	[13] 17	[83] 110	E	120	760	E	120	760	E	[3] 4	[21] 24	E	[13] 17	[83] 110	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	1.1	0.13	E	24	2.9	E	110	13	E	0.24	0.029	E	1.1	0.1	E	NA

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		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
CHLOROACETOPHENONE, 2-	532-27-4	[0.11] <u>0.13</u>	[0.033] <u>0.039</u>	E	[0.31] <u>0.35</u>	[0.093] <u>0.11</u>	E	[11] <u>13</u>	[3.3] <u>3.9</u>	E	[31] <u>35</u>	[9.3] <u>11.0</u>	E	[110] <u>130</u>	[33] <u>39</u>	E	[310] <u>350</u>	[93] <u>110</u>	E	NA
CHLOROANILINE, P-	106-47-8	[0.33] <u>0.37</u>	[0.42] <u>0.47</u>	E	[1.3] <u>1.7</u>	[1.6] <u>2.1</u>	E	[33] <u>37</u>	[42] <u>47</u>	E	[130] <u>170</u>	[160] <u>210</u>	E	[0.33] <u>0.37</u>	[0.42] <u>0.47</u>	E	[1.3] <u>1.7</u>	[1.6] <u>2.1</u>	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	[0.6] <u>0.66</u>	[4] <u>4.4</u>	E	[2.4] <u>3.1</u>	[16] <u>20</u>	E	[60] <u>66</u>	[400] <u>440</u>	E	[240] <u>310</u>	[1,600] <u>2,000</u>	E	[600] <u>660</u>	[4,000] <u>4,400</u>	E	1,300	8,600	E	15
CHLOROBUTANE, 1-	109-69-3	[150] <u>170</u>	[230] <u>270</u>	E	[410] <u>470</u>	[640] <u>730</u>	E	10,000	10,000	C	10,000	10,000	C	[150] <u>170</u>	[230] <u>270</u>	E	[410] <u>470</u>	[640] <u>730</u>	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	[23] <u>25</u>	[5] <u>5.4</u>	E	[90] <u>120</u>	[19] <u>26</u>	E	[2,300] <u>2,500</u>	[500] <u>540</u>	E	[9,000] <u>10,000</u>	[1,900] <u>2,600</u>	E	[2,300] <u>2,500</u>	[500] <u>540</u>	E	[9,000] <u>10,000</u>	[1,900] <u>2,600</u>	E	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	[290] <u>330</u>	[6,200] <u>7,000</u>	E	[820] <u>930</u>	[18,000] <u>20,000</u>	E	1,200	26,000	E	1,200	26,000	E	[290] <u>330</u>	[6,200] <u>7,000</u>	E	[820] <u>930</u>	[18,000] <u>20,000</u>	E	15
CHLORONITROBENZENE, P-	100-00-5	[3.7] <u>4.2</u>	[4.9] <u>5.5</u>	E	[10] <u>12</u>	[13] <u>16</u>	E	[370] <u>420</u>	[490] <u>550</u>	E	[1,000] <u>1,200</u>	[1,300] <u>1,600</u>	E	[3.7] <u>4.2</u>	[4.9] <u>5.5</u>	E	[10] <u>12</u>	[13] <u>16</u>	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
CHLOROPRENE	126-99-8	[1.5] <u>0.016</u>	[0.35] <u>0.0038</u>	E	[6.2] <u>0.083</u>	[1.5] <u>0.02</u>	E	[150] <u>1.6</u>	[35] <u>0.38</u>	E	[620] <u>8.3</u>	[150] <u>2</u>	E	[150] <u>1.6</u>	[35] <u>0.38</u>	E	[620] <u>8.3</u>	[150] <u>2</u>	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	[21] <u>24</u>	[54] <u>61</u>	E	60	150	E	60	150	E	60	150	E	[21] <u>24</u>	[54] <u>61</u>	E	60	150	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	[180] <u>210</u>	[25] <u>29</u>	E	[510] <u>580</u>	[71] <u>80</u>	E	[18,000] <u>19,000</u>	[2,500] <u>2,600</u>	E	19,000	2,600	E	[180] <u>210</u>	[25] <u>29</u>	E	[510] <u>580</u>	[71] <u>80</u>	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	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	5

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Appendix A
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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
CRESOL(S)	1319-77-3	[18] 21	[3.1] 3.6	E	[51] 58	[8.9] 10	E	[1,800] 2,100	[310] 360	E	[5,100] 5,800	[890] 1,000	E	[1,800] 2,100	[310] 360	E	[5,100] 5,800	[890] 1,000	E	NA
CRESOL, 4,6-DINITRO-O-	534-52-1	[0.37] 0.33	[0.28] 0.25	E	[1] 0.93	[0.75] 0.7	E	[37] 33	[28] 25	E	[100] 93	[75] 70	E	[370] 330	[280] 250	E	[1,000] 930	[750] 700	E	NA
CRESOL, O- (2-METHYLPHENOL)	95-48-7	[180] 210	[30] 35	E	[510] 580	[85] 96	E	[18,000] 21,000	[3,000] 3,500	E	[51,000] 58,000	[8,500] 9,600	E	[18,000] 21,000	[3,000] 3,500	E	[51,000] 58,000	[8,500] 9,600	E	NA
CRESOL, M- (3-METHYLPHENOL)	108-39-4	[180] 210	[36] 41	E	[510] 580	[100] 110	E	10,000	[3,600] 4,100	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
CRESOL, P- (4-METHYLPHENOL)	106-44-5	[18] 21	[4.2] 4.9	E	[51] 58	[12] 14	E	[1,800] 2,100	[420] 490	E	[5,100] 5,800	[1,200] 1,400	E	[18,000] 21,000	[4,200] 4,900	E	[51,000] 58,000	[12,000] 14,000	E	NA
CRESOL, P-CHLORO-M-	59-50-7	[18] 420	[37] 870	E	[51] 1,200	[110] 2,500	E	[1,800] 42,000	[3,700] 87,000	E	[5,100] 120,000	[11,000] 190,000	[E] C	[18] 420	[37] 870	E	[51] 1,200	[110] 2,500	E	30
CROTONALDEHYDE	4170-30-3	[0.035] 0.038	[0.0044] 0.0048	E	[0.14] 0.18	[0.018] 0.023	E	[3.5] 3.8	[0.44] 0.48	E	[14] 18	[1.8] 2.3	E	[3.5] 3.8	[0.44] 0.48	E	[14] 18	[1.8] 2.3	E	NA
CROTONALDEHYDE, TRANS-	123-73-9	[0.035] 0.038	[0.0044] 0.0048	E	[0.14] 0.18	[0.018] 0.023	E	[3.5] 3.8	[0.44] 0.48	E	[14] 18	[1.8] 2.3	E	[3.5] 3.8	[0.44] 0.48	E	[14] 18	[1.8] 2.3	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	[10,000] 150	[5,000] 41	E	[10,000] 620	[10,000] 170	[C] E	10,000	[10,000] 4,100	[C] E	10,000	10,000	C	[10,000] 150	[5,000] 41	E	[10,000] 620	[10,000] 170	[C] 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	[27] 31	[84] 96	E	[77] 88	[240] 270	E	[2,700] 3,100	[8,400] 9,600	E	[7,700] 8,800	[24,000] 27,000	E	[27] 31	[84] 96	E	[77] 88	[240] 270	E	20
DDD, 4,4'-	72-54-8	[0.28] 0.3	[31] 33	E	[1.1] 1.4	[120] 150	E	16	1,800	E	16	1,800	E	16	1,800	E	16	1,800	E	10

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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	
DDE, 4,4'-	72-55-9	[0.19] 0.21	[41] 46	E	[0.76] 1	[170] 220	E	4	870	E	4	870	E	4	870	E	4	870	E	10
DDT, 4,4'-	50-29-3	[0.19] 0.21	[110] 130	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
DIALLATE	2303-16-4	[1.1] 1.2	[0.64] 0.7	E	[4.3] 5.6	[2.5] 3.3	E	[110] 120	[64] 70	E	[430] 560	[250] 330	E	[1,100] 1,200	[640] 700	E	4,000	2,300	E	NA
DIAMINOTOLUENE, 2,4-	95-80-7	[0.017] 0.019	[0.0034] 0.0038	E	[0.06] 8	[0.014] 0.018	E	[1.7] 1.9	[0.34] 0.38	E	[6.8] 8.9	[1.4] 1.8	E	[17] 19	[3.4] 3.8	E	[68] 89	[14] 18	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	[0.0029] 0.0031	[13] 14	E	[0.03] 6	[160] 210	E	0.06	270	E	0.06	270	E	0.06	270	E	0.06	270	E	5
DIBENZOFURAN	132-64-9	[3.7] 4.2	[95] 110	E	[10] 12	[260] 310	E	[370] 420	[9,500] 11,000	E	450	12,000	E	450	12,000	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	[37] 42	[150] 170	E	[100] 120	[410] 490	E	2,000	8,200	E	2,000	8,200	E	[37] 42	[150] 170	E	[100] 120	[410] 490	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	[37] 0.84	[14] 0.32	E	[100] 3.5	[39] 1.4	E	[3,700] 84	[1,400] 32	E	[10,000] 350	[3,900] 140	E	[3,700] 84	[1,400] 32	E	[10,000] 350	[3,900] 140	E	NA
DIBUTYL PHTHALATE, N-	84-74-2	[370] 420	[1,500] 1,700	E	[1,00] 0	[4,100] 4,900	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	0.07	E	0.6	0.34	E	0.0012	0.0007	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

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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	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
DICHLOROENZENE, 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
DICHLOROENZIDINE, 3,3'-	91-94-1	[0.15] 0.16	[8.3] 8.8	E	[0.58] 0.76	[32] 42	E	[15] 16	[830] 880	E	[58] 76	[3,200] 4,200	E	[150] 160	[8,300] 8,800	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
DICHLOROPROPENE, 1,3-	542-75-6	[0.66] 0.73	[0.12] 0.13	E	[2.6] 3.4	[0.46] 0.61	E	[66] 73	[12] 13	E	[260] 340	[46] 61	E	[66] 73	[12] 13	E	[260] 340	[46] 61	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	[0.23] 0.25	[0.054] 0.059	E	[0.9] 1.2	[0.21] 0.28	E	[23] 25	[5.4] 5.9	E	[90] 120	[21] 28	E	[0.23] 0.25	[0.054] 0.059	E	[0.9] 1.2	[0.21] 0.28	E	NA
DICYCLOPENTADIENE	77-73-6	1.5	3.2	E	6.2	13	E	150	320	E	620	1,300	E	[2] 1.5	[3] 3.2	E	[6] 6.2	13	E	30
DIELDRIN	60-57-1	[0.0041] 0.0046	[0.11] 0.13	E	[0.01] 0.021	[0.44] 0.58	E	[0.41] 0.46	[11] 13	E	[1.6] 2.1	[44] 58	E	[4.1] 4.6	[110] 130	E	[16] 17	[440] 470	E	15
DIETHANOLAMINE	111-42-2	NA	NA		NA	NA		NA	NA		NA	NA		NA	NA		NA	NA		NA
DIETHYL PHTHALATE	84-66-2	[2,900] 3,300	[910] 1,000	E	[8,20] 0 9,300	[2,600] 2,900	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

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Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
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REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
DIMETHOATE	60-51-5	[0.73] 0.83	[0.28] 0.32	E	[2] 2.3	[0.77] 0.89	E	[73] 83	[28] 32	E	[200] 230	[77] 89	E	[730] 830	[280] 320	E	[2,000] 2,300	[770] 890	E	NA
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[4.7] 0.046	[16] 0.15	E	[19] 0.21	[64] 0.71	E	[470] 5	[1,600] 15	E	[1,900] 21	[6,400] 71	E	[4,700] 46	[16,000] 150	E	[6,000] 210	[20,000] 710	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] 0.016	[0.037] 0.042	E	[0.05] 7 0.074	[0.15] 0.19	E	[1.4] 1.6	[3.7] 4.2	E	[5.7] 7.4	[15] 19	E	[14] 16	[37] 42	E	[57] 74	[150] 190	E	20
DIMETHYLANILINE, N,N-	121-69-7	[7.3] 8.3	[4.1] 4.7	E	[20] 23	[11] 13	E	[730] 830	[410] 470	E	[2,000] 2,300	[1,100] 1,300	E	[730] 830	[410] 470	E	[2,000] 2,300	[1,100] 1,300	E	NA
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.006] 0.0066	[0.33] 0.36	E	[0.02] 4 0.031	[1.3] 1.7	E	[0.6] 0.7	[33] 36	E	[2.4] 3.1	[130] 170	E	[6] 7	[330] 360	E	[24] 31	[1,300] 1,700	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] 1.2	E	10	[1] 1.2	E	NA
DIMETHYLPHENOL, 2,4-	105-67-9	[73] 83	[32] 36	E	[200] 230	[87] 100	E	[7,300] 8,300	[3,200] 3,600	E	10,000	[8,700] 10,000	[E] C	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	[7.3] 8.3	[0.83] 0.94	E	[20] 23	[2.3] 2.6	E	[730] 830	[83] 94	E	[2,000] 2,300	[230] 260	E	[7,300] 8,300	[830] 940	E	[20,000] 23,000	[2,300] 2,600	E	NA
DINITROTOLUENE, 2,4-	121-14-2	[0.21] 0.24	[0.05] 0.057	E	[0.84] 1.1	[0.2] 0.26	E	[21] 24	[5] 6	E	[84] 110	[20] 26	E	[210] 240	[50] 57	E	[840] 1,100	[200] 260	E	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[3.7] 4.2	[1.1] 1.2	E	[10] 12	[3] 4	E	[370] 420	[110] 120	E	[1,000] 1,200	[300] 360	E	[3,700] 4,200	[1,100] 1,200	E	[10,000] 12,000	[3,000] 3,600	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	[0.64] 0.73	[0.084] 0.095	E	[3.2] 3.4	[0.42] 0.44	E	[64] 73	[8.4] 9.5	E	[320] 340	[42] 44	E	[6.4] 7.3	[0.84] 0.95	E	[32] 34	[4.2] 4.4	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	[91] 100	[53] 59	E	[260] 290	[150] 170	E	[9,100] 10,000	[5,300] 5,900	E	[26,000] 29,000	[15,000] 17,000	E	30,000	18,000	E	30,000	18,000	E	NA

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		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential						
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential								
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value							
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[0.083] 0.091	[0.15] 0.16	E	[0.33] 0.43	[0.58] 0.76	E	[8.3] 9.1	[15] 16	E	25	44	E	25	44	E	30			
DIQUAT	85-00-7	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	[7.3] 8.3	[6.3] 7.1	E	[20] 23	[17] 20	E	[730] 830	[630] 710	E	[2,000] 2,300	[1,700] 2,000	E	[7.3] 8.3	[6.3] 7.1	E	[20] 23	[17] 20	E	NA
ENDOSULFAN	115-29-7	[22] 25	[110] 130	E	48	250	E	48	250	E	48	250	E	48	250	E	48	250	E	15
ENDOSULFAN I (ALPHA)	959-98-8	[22] 25	[110] 130	E	50	260	E	50	260	E	50	260	E	[22] 25	[110] 130	E	50	260	E	15
ENDOSULFAN II (BETA)	33213-65-9	[22] 25	[130] 150	E	45	260	E	45	260	E	45	260	E	[22] 25	[130] 150	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	[18] 21	[2.1] 2.4	E	[51] 58	[5.9] 6.7	E	[1,800] 2,100	[210] 240	E	[5,100] 5,800	[590] 670	E	[18] 21	[2.1] 2.4	E	[51] 58	[5.9] 6.7	E	NA
ETHION	563-12-2	[1.8] 2.1	[39] 46	E	[5.1] 5.8	[110] 130	E	85	1,900	E	85	1,900	E	[1.8] 2.1	[39] 46	E	[5.1] 5.8	[110] 130	E	15
ETHOXYETHANOL, 2-(EGEE)	110-80-5	42	5.9	E	180	25	E	4,200	590	E	10,000	2,500	E	4,200	590	E	10,000	2,500	E	NA
ETHYL ACETATE	141-78-6	[3,300] 3,800	[850] 980	E	[9,200] 10,000	[2,400] 2,800	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ETHYL ACRYLATE	140-88-5	[1.4] 1.5	[0.54] 0.58	E	[5.4] 7.1	[2.1] 2.7	E	[140] 150	[54] 58	E	[540] 710	[210] 270	E	[140] 150	[54] 58	E	[540] 710	[210] 270	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	[91] 100	[65] 71	E	[260] 290	[180] 210	E	[9,100] 10,000	[6,500] 7,100	E	10,000	10,000	C	[91] 100	[65] 71	E	[260] 290	[180] 210	E	NA

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		TDS ≤ 2500						TDS > 2500					Residential		Nonresidential					
		Residential		Nonresidential		Residential		Nonresidential			Residential		Nonresidential							
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
ETHYL ETHER	60-29-7	[730] 830	[210] 230	E	[2,00 0] 2,300	[560] 650	E	10,000	10,000	C	10,000	10,000	C	[730] 830	[210] 230	E	[2,000] 2,300	[560] 650	E	NA
ETHYL METHACRYLATE	97-63-2	[330] 63	[55] 10	E	[920] 260	[150] 43	E	[10,000] 6,300	[5,500] 1,000	E	10,000	[10,000] 4,300	[C] E	[330] 63	[55] 10	E	[920] 260	[150] 43	E	NA
ETHYLENE CHLORHYDRIN	107-07-3	83	10	E	230	26	E	8,300	950	E	10,000	2,600	E	83	10	E	230	26	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	[0.29] 0.33	[0.032] 0.037	E	[0.82] 0.93	[0.092] 0.1	E	[29] 33	[3.2] 3.7	E	[82] 93	[9.2] 10	E	[290] 330	[32] 37	E	[820] 930	[92] 100	E	NA
ETHYLP-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	[0.037] 0.042	[0.12] 0.13	E	[0.1] 0.12	[0.31] 0.37	E	[3.7] 4.2	[12] 13	E	[10] 12	[31] 37	E	[0.037] 0.042	[0.12] 0.13	E	0.1	[0.31] 0.37	E	20
FENAMIPHOS	22224-92-6	0.07	0.06	E	0.07	0.06	E	7	6	E	7	6	E	[0.1] 0.07	0.06	E	[0.1] 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	[150] 170	[3,000] 3,400	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
FORMIC ACID	64-18-6	[0.63] 0.063	[0.071] 0.0071	E	[2.6] 0.26	[0.3] 0.029	E	[63] 6.3	[7.1] 0.71	E	[260] 26	[29] 2.9	E	[6.3] 0.63	[0.71] 0.071	E	[26] 2.6	[3] 0.29	E	NA
FOSETYL-AL	39148-24-8	[11,000] 13,000	[9,700] 12,000	E	[31,0 00] 35,00 0	[27,00 0] 31,000	E	190,000	190,000	C	190,000	190,000	C	[11,000] 13,000	[9,700] 12,000	E	[31,000] 35,000	[27,00 0] 31,000	E	NA
FURAN	110-00-9	[3.7] 4.2	[1.6] 1.8	E	[10] 12	[4.4] 5.2	E	[370] 420	[160] 180	E	[1,000] 1,200	[440] 520	E	[370] 420	[160] 180	E	[1,000] 1,200	[440] 520	E	NA

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		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
FURFURAL	98-01-1	11	1.4	E	[31] 35	[3.9] 4.4	E	1,100	140	E	[3,100] 3,500	[390] 440	E	11	1.4	E	[31] 35	[3.9] 4.4	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
HEXACHLOROBENZENE	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	[0.9] 0.94	[10] 11	E	[3.3] 4.4	[39] 52	E	[85] 94	[1,000] 1,100	E	290	3,400	E	290	3,400	E	290	3,400	E	15
HEXACHLOROCYCLO PENTADIENE	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
HEXANE	110-54-3	150	1,400	E	[610] 620	5,600	E	950	8,700	E	950	8,700	E	150	1,400	E	[610] 620	5,600	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	[438] 4.8	E	NA
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.001	0.00011	E	0.005 1	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	1.2	0.16	E	[4.6] 5.7	[0.62] 0.77	E	120	16	E	[460] 570	[62] 77	E	1,200	160	E	[4,600] 5,700	[620] 770	E	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.029] 0.031	[2,200] 2,400	E	[0.36] 0.47	[28,00] 0 36,000	E	[2.9] 3.1	190,00 0	C	6.2	190,00 0	C	6.2	190,000	C	6.2	190,000	C	5
IPRODIONE	36734-19-7	[150] 170	[430] 490	E	[410] 470	[1,200] 1,300	E	1,300	3,700	E	1,300	3,700	E	[150] 170	[430] 490	E	[410] 470	[1,200] 1,300	E	20
ISOBUTYL ALCOHOL	78-83-1	[1,100] 1,300	[290] 340	E	[3,10] 0 3,500	[810] 910	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

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		TDS ≤ 2500						TDS > 2500						Residential		Nonresidential				
		Residential			Nonresidential			Residential			Nonresidential			Residential		Nonresidential				
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
KEPONE	143-50-0	[0.0041]] 0.0073	[0.56] 1	E	[0.016] 0.034	[2.2] 4.7	E	[0.41] 0.73	[56] 100	E	1.6] 3.4	[220] 470	E	[4.1] 7.3	[560] 1,000	E	[16] 34	[2,200] 4,700	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
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	[18] 21	2	E	[51] 58	[5.8] 6.6	E	[1,800] 2,100	[200] 240	E	2,300	260	E	[18] 21	2	E	[51]58	[5.8] 6.6	E	NA
MERPHOS OXIDE	78-48-8	[0.11] 0.13	[15] 17	E	[0.31] 0.35	[41] 46	E	[11] 13	[1,500] 1,700	E	[31] 35	[4,100] 4,600	E	[0.11] 0.13	[15] 17	E	[0.31] 0.35	[41] 46	E	10
METHACRYLONITRILE	126-98-7	[0.15] 0.42	[0.025] 0.069	E	[0.62] 1.2	[0.1] 0.2	E	[15] 42	[2.5] 6.9	E	[62] 120	[10] 20	E	[0.15] 0.42	[0.025] 0.069	E	[0.62] 1.2	[0.1] 0.2	E	NA
METHAMIDOPHOS	10265-92-6	[0.18] 0.21	[0.022] 0.026	E	[0.51] 0.58	[0.063] 0.072	E	[18] 21	[2.2] 2.6	E	[51] 58	[6.3] 7.2	E	[0.18] 0.21	[0.022] 0.026	E	[0.51] 0.58	[0.063] 0.072	E	NA
METHANOL	67-56-1	[840] 4,200	[99] 500	E	[3,50 0] 10,00 0	[410] 2,100	E	10,000	[9,900] 10,000	[E] C	10,000	10,000	C	10,000	[9,900] 10,000	[E] 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	0.47	E	18	2	E	420	47	E	1,800	200	E	4.2	0.47	E	18	2	E	NA
METHYL ACETATE	79-20-9	[3,700] 4,200	[690] 780	E	10,00 0	[1,900] 2,200	E	10,000	10,000	C	10,000	10,000	C	[3,700] 4,200	[690] 780	E	10,000	[1,900] 2,200	E	NA
METHYL ACRYLATE	96-33-3	[110] 4	[27] 1	E	[310] 18	[77] 5	E	[10,000] 420	[2,700] 100	E	[10,000] 1,800	[7,700] 450	E	[10,000] 420	[2,700] 100	E	[10,000] 1,800	[7,700] 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	[C] E	10,000	7,600	E	10,000	7,600	[C] 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	[290] 330	[45] 51	E	[820] 930	[130] 140	E	10,000	[4,500] 5,100	E	10,000	10,000	C	10,000	[4,500] 5,100	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

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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					TDS > 2500					Residential		Nonresidential						
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
		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					
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	[1.1] 6.3	[0.27] 1.6	E	[4.4] 26	[1.1] 6.4	E	[110] 630	[27] 160	E	[440] 2,600	[110] 640	E	[1.1] 6.3	[0.27] 1.6	E	[4.4] 26	[1.1] 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	[0.67] 0.74	[0.083] 0.092	E	[2.6] 3.4	[0.32] 0.42	E	[67] 74	[8.3] 9.2	E	[260] 340	[32] 42	E	[0.67] 0.74	[0.083] 0.092	E	[2.6] 3.4	[0.32] 0.42	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
METHYLCHLOROPHENOXY ACETIC 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	[0.22] 0.23	[1.7] 1.8	E	[2.6] 3.4	[20] 26	E	[22] 23	[170] 180	E	[260] 340	[2,000] 2,600	E	[0.22] 0.23	[1.7] 1.8	E	[2.6] 3.4	[20] 26	E	15
METHYLNAPHTHALENE, 2-	91-57-6	[15] 17	[600] 680	E	[41] 47	[1,600] 1,900	E	[1,500] 1,700	[60,000] 68,000	E	2,500	100,000	E	[15] 17	[600] 680	E	[41] 47	[1,600] 1,900	E	15
METHYLSTYRENE, ALPHA	98-83-9	[260] 290	[460] 510	E	[720] 820	[1,300] 1,400	E	10,000	10,000	C	10,000	10,000	C	[260] 290	[460] 510	E	[720] 820	[1,300] 1,400	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
MONOCHLOROACETIC ACID (HAA)	79-11-8	[7] 6	[0.78] 0.67	E	[7] 6	[0.78] 0.67	E	[700] 600	[78] 67	E	[700] 600	[78] 67	E	[7] 6	[0.78] 0.67	E	[7] 6	[0.78] 0.67	E	NA
NAPHTHALENE	91-20-3	10	25	E	10	25	E	1,000	2,500	E	1,000	2,500	E	3,000	7,500	E	3,000	7,500	E	30
NAPHTHYLAMINE, 1-	134-32-7	[0.037] 0.041	[0.3] 0.33	E	[0.14] 0.19	[1.1] 1.5	E	[3.7] 4.1	[30] 33	E	[14] 19	[110] 150	E	[37] 41	[300] 330	E	[140] 190	[1,100] 1,500	E	15
NAPHTHYLAMINE, 2-	91-59-8	[0.037] 0.041	[0.012] 0.013	E	[0.14] 0.19	[0.046] 0.062	E	[3.7] 4.1	[1.2] 1.3	E	[14] 19	[4.6] 6.2	E	[37] 41	[12] 13	E	[140] 190	[46] 62	E	NA
NAPROPAMIDE	15299-99-7	[370] 420	[860] 970	E	[1,000] 1,200	[2,300] 2,800	E	7,000	16,000	E	7,000	16,000	E	[370] 420	[860] 970	E	[1,000] 1,200	[2,300] 2,800	E	30
NITROANILINE, M-	99-09-2	[1.1] 1.3	[0.17] 0.2	E	[3.1] 3.5	[0.48] 0.55	E	[110] 130	[17] 20	E	[310] 350	[48] 55	E	[1.1] 1.3	[0.17] 0.2	E	[3.1] 3.5	[0.48] 0.55	E	NA

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Appendix A
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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential		
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
		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	
NITROANILINE, O-	88-74-4	[11] 42	[2] 8 E	[31] 120	[5.5] 21 E	[1,100] 4,200	[200] 750	[3,100] 12,000	[550] 2,100	E	[11] 42	[2] 8 E	[31] 120	[5.5] 21 E	NA	
NITROANILINE, P-	100-01-6	[3.3] 3.7	[0.49] 0.55 E	[13] 17	[1.9] 2.5 E	[330] 370	[49] 55 E	[1,300] 1,700	[190] 250	E	[3.3] 3.7	[0.49] 0.55 E	[13] 17	[1.9] 2.5 E	NA	
NITROBENZENE	98-95-3	[7.3] 8.3	[3.2] 3.6 E	[20] 23	[8.7] 10 E	[730] 830	[320] 360	[2,000] 2,300	[870] 1,000	E	[7,300] 8,300	[3,200] 3,600	10,000	[8,700] 10,000	[E] C	
NITROGUANIDINE	556-88-7	70	7.8 E	70	7.8 E	7,000	780 E	7,000	780 E	E	70	7.8 E	70	7.8 E	NA	
NITROPHENOL, 2-	88-75-5	[29] 33	[5.9] 6.7 E	[82] 93	[17] 19 E	[2,900] 3,300	[590] 670	[8,200] 9,300	[1,700] 1,900	E	[29,000] 33,000	[5,900] 6,700	[82,000] 93,000	[17,000] 19,000	E	
NITROPHENOL, 4-	100-02-7	6	4.1 E	6	4.1 E	600	410 E	600	410 E	E	6,000	4,100 E	6,000	4,100 E	NA	
NITROPROPANE, 2-	79-46-9	0.0018	0.00029 E	0.009 3	0.0015 E	0.18	0.029 E	0.93	0.15 E	E	0.018	0.0029 E	0.093	0.015 E	NA	
NITROSODIETHYLAMINE, N-	55-18-5	0.0000 45	0.0000079 E	0.0005 8	0.0001 E	0.0045	0.0008 E	0.058	0.01 E	E	0.00045	0.00008 E	0.0058	0.001 E	NA	
NITROSODIMETHYLAMINE, N-	62-75-9	0.0001 4	0.000019 E	0.0018	0.00024 E	0.014	0.0019 E	0.18	0.024 E	E	0.0014	0.00019 E	0.018	0.0024 E	NA	
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.012] 0.014	[0.015] 0.017 E	[0.04] 8	[0.059] 0.078 E	[1.2] 1.4	[1.5] 1.7 E	[4.8] 6.3	[5.9] 7.8 E	E	[12] 14	[15] 17 E	[48] 63	[59] 78 E	NA	
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.0094] 0.01	[0.0013] 0.0014 E	[0.03] 7	[0.0051] 0.0068 E	[0.94] 1	[0.13] 0.14 E	[3.7] 4.9	[0.51] 0.68 E	E	[9.4] 10	[1.3] 1.4 E	[37] 49	[5.1] 6.8 E	NA	
NITROSODIPHENYLAMINE, N-	86-30-6	[13] 15	[20] 23 E	[53] 69	[83] 110 E	[1,300] 1,500	[2,000] 2,300	3,500	5,500	E	3,500	5,500 E	3,500	5,500 E	30	
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.0008] 0.0008 4	[0.000092] 0.000097 E	[0.00] 96	[0.001] 0.0015 E	0.08	[0.0092] 0.0097	[0.96] 1.3	[0.11] 0.15 E	E	0.8	[0.092] 0.097 E	[9.6] 13	[1.1] 1.5 E	NA	
OCTYL PHTHALATE, DI-N-	117-84-0	[150] 42	10,000 C	[300] 120	10,000 C	300	10,000 C	300	10,000 C	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	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	E	3	120 E	3	120 E	15	

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		TDS ≤ 2500					TDS > 2500					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		E			
PARATHION	56-38-2	[22] 25	[130] 150	E	[61] 70	[360] 410	E	2,000	10,000	C	2,000	10,000	C	[22] 25	[130] 150	E	[61] 70	[360] 410	E	15
PCB-1016 (AROCLOR)	12674-11-2	[0.26] 0.29	[72] 80	E	[0.72] 0.82	[200] 230	E	25	6,900	E	25	6,900	E	[0.26] 0.29	[72] 80	E	[0.72] 0.82	[200] 230	E	10
PCB-1221 (AROCLOR)	11104-28-2	[0.033] 0.037	[0.16] 0.18	E	[0.13] 0.17	[0.63] 0.83	E	3.3] 3.7	[16] 18	E	[13] 17	[63] 83	E	[0.033] 0.037	[0.16] 0.18	E	[0.13] 0.17	[0.63] 0.83	E	20
PCB-1232 (AROCLOR)	11141-16-5	[0.033] 0.037	[0.13] 0.14	E	[0.13] 0.17	[0.5] 0.7	E	3.3] 3.7	[13] 14	E	[13] 17	[50] 66	E	[0.033] 0.037	[0.13] 0.14	E	[0.13] 0.17	[0.5] 0.7	E	20
PCB-1242 (AROCLOR)	53469-21-9	[0.033] 0.037	4	E	[0.13] 0.17	[16] 20	E	3.3] 3.7	[400] 440	E	10	1,200	E	[0.033] 0.037	4	E	[0.13] 0.17	[16] 20	E	10
PCB-1248 (AROCLOR)	12672-29-6	[0.033] 0.037	[16] 18	E	[0.13] 0.17	[62] 81	E	3.3] 3.7	[1,600] 1,800	E	5.4	2,600	E	[0.033] 0.037	[16] 18	E	[0.13] 0.17	[62] 81	E	10
PCB-1254 (AROCLOR)	11097-69-1	[0.033] 0.037	[67] 75	E	[0.13] 0.17	[260] 340	E	3.3] 3.7	[6,700] 7,500	E	5.7	10,000	C	[0.033] 0.037	[67] 75	E	[0.13] 0.17	[260] 340	E	5
PCB-1260 (AROCLOR)	11096-82-5	[0.033] 0.037	[150] 170	E	[0.13] 0.17	[590] 770	E	3.3] 3.7	[15,000] 17,000	E	8	36,000	E	[0.033] 0.037	[150] 170	E	[0.13] 0.17	[590] 770	E	5
PEBULATE	1114-71-2	[180] 210	[300] 350	E	[510] 580	[860] 980	E	9,200	10,000	C	9,200	10,000	C	[180] 210	[300] 350	E	[510] 580	[860] 980	E	30
PENTACHLOROBENZENE	608-93-5	[2.9] 3.3	[230] 260	E	[8.2] 9.3	[660] 750	E	74	5,900	E	74	5,900	E	74	5,900	E	74	5,900	E	10
PENTACHLOROETHANE	76-01-7	[0.73] 0.81	[3.6] 3.9	E	[2.9] 3.8	[14] 19	E	[73] 81	[360] 390	E	[290] 380	[1,400] 1,900	E	[0.73] 0.81	[3.6] 3.9	E	2.9] 3.8	[14] 19	E	20
PENTACHLORO NITROBENZENE	82-68-8	[0.25] 0.28	[5] 6	E	1	[20] 26	E	[25] 28	[500] 560	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
PHENACETIN	62-44-2	[30] 33	[12] 13	E	[120] 150	[46] 58	E	[3,000] 3,300	[1,200] 1,300	E	[12,000] 15,000	[4,600] 5,800	E	[30,000] 33,000	[12,000] 13,000	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	[0.037] 4.200	[0.056] 6.400	E	[0.1] 12	[0.15] 18	E	[3.7] 420	[5.6] 640	E	[10] 1,200	[15] 1,800	E	[0.037] 4.2	[0.056] 6.4	E	[0.1] 12	[0.15] 18	E	30

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		TDS ≤ 2500						TDS > 2500						Residential		Nonresidential				
		Residential			Nonresidential			Residential			Nonresidential			Residential		Nonresidential				
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
PHENYLENEDIAMINE, M-	108-45-2	[22] 25	[3.1] 3.5	E	[61] 70	[8.6] 9.9	E	[2,200] 2,500	[310] 350	E	[6,100] 7,000	[860] 990	E	[22,000] 25,000	[3,100] 3,500	E	[61,000] 70,000	[8,600] 9,900	E	NA
PHENYLPHENOL, 2-	90-43-7	[35] 38	[500] 550	E	[140] 180	[2,000] 2,600	E	[3,500] 3,800	[50,000] 55,000	E	[14,000] 18,000	190,000	C	[35,000] 38,000	190,000	C	70,000	190,000	C	15
PHORATE	298-02-2	[0.73] 0.83	[1.6] 1.8	E	2	[4.3] 4.9	E	[73] 83	[160] 180	E	[200] 230	[430] 490	E	[0.73] 0.83	[1.6] 1.8	E	2	[4.3] 4.9	E	30
PHTHALIC ANHYDRIDE	85-44-9	[7,300] 8,300	[2,300] 2,600	E	[20,000] 23,000	[6,200] 7,100	E	190,000	190,000	C	190,000	190,000	C	190,000	190,000	C	190,000	190,000	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
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	[270] 310	[170] 190	E	[770] 880	[470] 540	E	1,500	920	E	1,500	920	E	[270] 310	[170] 190	E	[770] 880	[470] 540	E	NA
PROPANIL	709-98-8	[18] 21	[9.2] 11	E	[51] 58	[26] 30	E	[1,800] 2,100	[920] 1,100	E	[5,100] 5,800	[2,600] 3,000	E	[18] 21	[9.2] 11	E	[51] 58	[26] 30	E	NA
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	1,500	260	E	6,200	1,100	E	10,000	10,000	C	10,000	10,000	C	1,500	260	E	6,200	1,100	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	[150] 210	[290] 400	E	[410] 880	[780] 1,700	E	5,200	9,900	E	5,200	9,900	E	[150] 210	[290] 400	E	[410] 880	[780] 1,700	E	30
PROPYLENE OXIDE	75-56-9	[0.28] 0.3	[0.049] 0.052	E	[1.1] 1.4	[0.19] 0.24	E	[28] 30	[4.9] 5.2	E	[110] 140	[19] 24	E	[0.28] 0.30	[0.049] 0.052	E	[1.1] 1.4	[0.19] 0.24	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
PYRIDINE	110-86-1	[3.7] 4.2	[0.41] 0.47	E	[10] 12	[1.1] 1.3	E	[370] 420	[41] 47	E	[1,000] 1,200	[110] 130	E	[37] 42	[4.1] 4.7	E	[100] 120	[11] 13	E	NA
QUINOLINE	91-22-5	[0.022] 0.024	[0.074] 0.081	E	[0.08] 0.11	[0.29] 0.37	E	[2.2] 2.4	[7.4] 8.1	E	[8.7] 11	[29] 37	E	[22] 24	[74] 81	E	[87] 110	[290] 370	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

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500					TDS > 2500					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		E			
RESORCINOL	108-46-3	[7,300] <u>8,300</u>	[850] <u>970</u>	E	[20,000] <u>23,000</u> <u>0</u>	[2,300] <u>2,700</u>	E	190,000	[85,000] <u>97,000</u>	E	190,000	190,000	C	[7,300] <u>8,300</u>	[850] <u>970</u>	E	[20,000] <u>23,000</u> <u>0</u>	[2,300] <u>2,700</u>	E	NA
RONNEL	299-84-3	[180] <u>210</u>	[280] <u>330</u>	E	[510] <u>580</u>	[800] <u>910</u>	E	4,000	6,200	E	4,000	6,200	E	[180] <u>210</u>	[280] <u>330</u>	E	[510] <u>580</u>	[800] <u>910</u>	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	[1.1] <u>1.3</u>	[0.89] <u>1.1</u>	E	[3.1] <u>3.5</u>	[2.5] <u>2.8</u>	E	[110] <u>130</u>	[89] <u>110</u>	E	[310] <u>350</u>	[250] <u>280</u>	E	[1,100] <u>1,300</u>	[890] <u>1,100</u>	E	[3,100] <u>3,500</u>	[2,500] <u>2,800</u>	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	[1.1] <u>1.3</u>	[5.1] <u>6</u>	E	[3.1] <u>3.5</u>	[14] <u>16</u>	E	58	270	E	58	270	E	58	270	E	58	270	E	20
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.0000 03	0.032	E	0.000 003	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	0.08	0.026	E	0.43	0.13	E	8	2.6	E	43	13	E	8	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
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[110] <u>130</u>	[1,700] <u>2,000</u>	E	[310] <u>350</u>	[4,800] <u>5,500</u>	E	[11,000] <u>13,000</u>	[170,000] <u>190,000</u> <u>0</u>	[E] [C]	18,000	190,000	C	18,000	190,000	C	18,000	190,000	C	15
TETRAETHYL LEAD	78-00-2	[0.00037] <u>0.00042</u>	[0.0046] <u>0.0052</u>	E	[0.001] <u>0.0012</u>	[0.012] <u>0.015</u>	E	[0.037] <u>0.042</u>	[0.46] <u>0.52</u>	E	0.1	[1.2] <u>1.5</u>	E	[0.37] <u>0.42</u>	[4.6] <u>0.52</u>	E	1	[12] <u>15</u>	E	15
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	[1.8] <u>2.1</u>	[2.7] <u>3.1</u>	E	[5.1] <u>5.8</u>	[7.6] <u>8.6</u>	E	[180] <u>210</u>	[270] <u>310</u>	E	[510] <u>580</u>	[760] <u>860</u>	E	[1.8] <u>2.1</u>	[2.7] <u>3.1</u>	E	[5.1] <u>5.8</u>	[7.6] <u>8.6</u>	E	30

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		TDS ≤ 2500						TDS > 2500						Residential		Nonresidential				
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential				
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
TETRAHYDROFURAN	109-99-9	[2.5] 2.6	[0.55] 0.57	E	13	2.8	E	[250] 260	[55] 57	E	1,300	280	E	[2.5] 2.6	[0.55] 0.57	E	13	2.8	E	NA
THIOFANOX	39196-18-4	[1.1] 1.3	[0.12] 0.14	E	[3.1] 3.5	[0.34] 0.39	E	[110] 130	[12] 14	E	[310] 350	[34] 39	E	[1.1] 1.3	[0.12] 0.14	E	[3.1] 3.5	[0.34] 0.39	E	NA
THIRAM	137-26-8	[18] 21	[47] 55	E	[51] 58	[130] 150	E	[1,800] 2,100	[4,700] 5,500	E	3,000	7,800	E	[18] 21	[47] 55	E	[51] 58	[130] 150	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	[0.37] 0.41	[0.17] 0.19	E	[1.4] 1.9	[0.65] 0.88	E	[37] 41	[17] 19	E	[140] 190	[65] 88	E	[0.37] 0.41	[0.17] 0.19	E	[1.4] 1.9	[0.65] 0.88	E	NA
TOLUIDINE, O-	95-53-4	[0.37] 4.6	[0.42] 5.2	E	[1.4] 21	[1.6] 24	E	[37] 460	[42] 520	E	[140] 2,100	[160] 2,400	E	[370] 4,600	[420] 5,200	E	[1,400] 10,000	[1,600] 10,000	[E] C	NA
TOLUIDINE, P-	106-49-0	[0.35] 2.4	[0.32] 2.2	E	[1.4] 11	[1.3] 10	E	[35] 240	[32] 220	E	[140] 1,100	[130] 1,000	E	[0.35] 2.4	[0.32] 2.2	E	[1.4] 11	[1.3] 10	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	[47] 54	[240] 280	E	[130] 150	[660] 770	E	400	2,000	E	400	2,000	E	[47] 54	[240] 280	E	[130] 150	[660] 770	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	6,300	10,000	C	10,000	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	2	0.32	E	2	0.32	E	200	32	E	200	32	E	2	0.32	E	2	0.332	E	NA
TRICHLOROBENZENE, 1,2,4-	120-82-1	7	27	E	7	27	E	700	2,700	E	700	2,700	E	4,400	10,000	C	4,400	10,000	C	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	[370] 420	[2,300] 2,600	E	[1,000] 1,200	[6,100] 7,300	E	[37,000] 42,000	190,000	C	100,000	190,000	C	100,000	190,000	C	100,000	190,000	C	15

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		TDS ≤ 2500					TDS > 2500					Residential		Nonresidential		
		Residential		Nonresidential			Residential		Nonresidential			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
TRICHLOROPHENOL, 2,4,6-	88-06-2	[3.7] <u>4.2</u>	[11] <u>12</u> E	[10] <u>12</u>	[29] <u>34</u> E	[370] <u>420</u>	[1,100] <u>1,200</u>	[1,000] <u>1,200</u>	[2,900] <u>3,400</u>	[3,700] <u>4,200</u>	[11,000] <u>12,000</u>	[10,000] <u>12,000</u>	[29,000] <u>34,000</u>	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	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	E	20	
TRICHLOROPROPANE, 1,1,2-	598-77-6	[18] <u>21</u>	[3.1] <u>3.6</u> E	[51] <u>58</u>	[8.7] <u>9.9</u> E	[1,800] <u>2,100</u>	[310] <u>360</u>	[5,100] <u>5,800</u>	[870] <u>990</u>	[18] <u>21</u>	[3.1] <u>3.6</u> E	[51] <u>58</u>	[8.7] <u>9.9</u>	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	E	NA	
TRICHLOROPROPENE, 1,2,3-	96-19-5	[0.21] <u>0.063</u>	[0.12] <u>0.037</u> E	[0.88] <u>0.26</u>	[0.52] <u>0.15</u> E	[21] <u>6.3</u>	[12] <u>3.7</u>	[88] <u>26</u>	[52] <u>15</u> E	[0.21] <u>0.063</u>	[0.12] <u>0.037</u> E	[0.88] <u>0.26</u>	[0.52] <u>0.15</u>	E	NA	
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	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	E	30	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	1.5	8.4 E	6.2	35 E	150	840 E	620	[3,200] <u>3,500</u>	150	840 E	620	3,500 E	E	15	
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[1.3] <u>42</u>	[2.3] <u>74</u> E	[5.3] <u>120</u>	[9.3] <u>210</u> E	[130] <u>4,200</u>	[230] <u>7,400</u>	[530] <u>4,900</u>	[930] <u>8,600</u>	[1.3] <u>42</u>	[2.3] <u>74</u> E	[5.3] <u>120</u>	[9.3] <u>210</u>	E	30	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.5	0.056 E	0.5	0.056 E	50	5.6 E	50	5.6 E	0.5	0.056 E	0.5	0.056 E	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	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	E	NA	
VINYL BROMIDE (BROMOETHENE)	593-60-2	0.15	0.073 E	0.78	0.38 E	15	7.3 E	78	38 E	1.5	0.73 E	7.8	3.8 E	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	E	NA	
WARFARIN	81-81-2	[1.1] <u>1.3</u>	[2.6] <u>3.1</u> E	[3.1] <u>3.5</u>	[7.4] <u>8.4</u> E	[110] <u>130</u>	[260] <u>310</u>	[310] <u>350</u>	[740] <u>840</u>	[1,100] <u>1,300</u>	[2,600] <u>3,100</u>	1,700	4,100 E	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	C	NA	
ZINEB	12122-67-7	[180] <u>210</u>	[29] <u>33</u> E	[510] <u>580</u>	[81] <u>92</u> E	1,000	160 E	1,000	160 E	[180] <u>210</u>	[29] <u>33</u> E	[510] <u>580</u>	[81] <u>92</u>	E	NA	

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