

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	[250] 200	[3,100] 2,500	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	[250] 200	[2,800] 2,300	E	[700] 560	[8,000] 6,400	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	[8.4] 4	[1.0] 0.47	E	[39] 11	[4.6] 1.3	E	[840] 400	[100] 47	E	[3,900] 1,100	[460] 130	E	[8.4] 4	[1.0] 0.47	E	[39] 11	[4.6] 1.3	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	[3,800] 3,000	[430] 340	E	[10,0] 00	[1,200] 940	E	10,000	10,000	C	10,000	10,000	C	10,000	[4,300] 3,400	E	10,000	[10,00] 0	[C] 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	[420] 330	[230] 180	E	[1,20] 0	[640] 500	E	10,000	10,000	C	10,000	10,000	C	[420] 330	[230] 180	E	[1,200] 930	[640] 500	E	NA
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	[0.019] 0.017	[0.08] 0.07	E	[0.08] 9]	[0.37] 0.24	E	[1.9] 1.7	[8] 7	E	[8.9] 5.8	[37] 24	E	[19] 17	[78] 70	E	[89] 58	[370] 240	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	0.039	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	[0.0043] 0.0037	[0.52] 0.44	E	[0.02] 0.013	[2.4] 1.6	E	[0.43] 0.37	[52] 44	E	[2.0] 1.3	[240] 160	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	[9] 8.8	1	E	2.1	0.25	E	[9] 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	[0.0035] 0.003	[0.0014] 0.0012	E	[0.01] 6]	[0.0062] 0.0039	E	[0.35] 0.3	[0.14] 0.12	E	[1.6] 1	[0.62] 0.39	E	[3.5] 3	[1.4] 1.2	E	[16] 10	[6.2] 3.9	E	NA

¹ For other options see Section 250.308

All concentrations in mg/kg

E – Number calculated by the soil to groundwater equation is section 250.308

C – Cap

NA – [The soil buffer distance option is not available for this substance] **Not applicable**

[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

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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					
AMITROLE	61-82-5	[0.078] 0.067	[0.032] 0.028	E	[0.36] 0.23	[0.15] 0.095	E	[8] 6.7	[3.2] 2.8	E	[36] 23	[15] 9.5	E	[78] 67	[32] 28	E	[360] 230	[150] 95	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	[13] 5	[15] 5.6	E	[35] 14	[40] 16	E	[1,300] 500	[1,500] 560	E	[3,200] 1,400	[3,600] 1,600	E	[13] 5	[15] 5.6	E	[35] 14	[40] 16	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	[200] 26	[970] 130	E	[200] 92	[970] 450	E	200	970	E	200	970	E	[200] 26	[970] 130	E	[200] 92	[970] 450	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 98] 0.0000 9	[0.13] 0.12	E	[0.00 15] 0.000 96	[2] 1.3	E	[0.0098] 0.009	[13] 12	E	[0.15] 0.096	[200] 130	E	[0.098] 0.09	[130] 120	E	[1.5] 0.96	[2,000] 1,300	E	5
BENZO[A]ANTHRACENE	56-55-3	[0.032] 0.03	[28] 26	E	[0.49] 0.31	[430] 270	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	[0.019] 0.017	[26] 23	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	[0.019] 0.017	[210] 190	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	[17,000] 13,000	[3,200] 2,500	E	[47,0 00] 37,00 0	[9,000] 7,100	E	190,000	52,000	E	190,000	52,000	E	[17,000] 13,000	[3,200] 2,500	E	[47,000] 37,000	[9,000] 7,100	E	NA
BENZOTRICHLORIDE	98-07-7	[0.0056] 0.0049	[0.014] 0.012	E	[0.02 6] 0.017	[0.063] 0.041	E	[0.56] 0.49	[1.4] 1.2	E	[3] 1.7	[6.3] 4.1	E	[5.6] 0.49	[14] 1.2	E	[26] 1.7	[63] 4.1	E	30

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All concentrations in mg/kg

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		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					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					
BENZYL ALCOHOL	100-51-6	[420] 330	[150] 120	E	[1,200] 930	[430] 340	E	10,000	10,000	C	10,000	10,000	C	[420] 330	[150] 120	E	[1,200] 930	[430] 340	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	[0.1] 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	[0.012] 0.01	[0.055] 0.046	E	[0.054] 0.035	[0.25] 0.16	E	1	[5.5] 4.6	E	[5.4] 3.5	[25] 16	E	[12] 10	[55] 46	E	[54] 35	[250] 160	E	20
BHC, BETA-	319-85-7	[0.041] 0.035	[0.24] 0.21	E	[0.19] 0.12	[1.1] 0.7	E	[4.1] 3.5	[24] 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	[9.1] 0.084	[40] 0.37	E	[43] 0.35	[190] 1.5	E	[720] 8.4	[3,100] 37	E	[720] 37	[3,100] 150	E	[720] 8.4	[3,100] 37	E	[720] 35	[3,100] 150	E	20
BIS(2-CHLOROETHOXY) METHANE	111-91-1	[13] 10	[3.4] 2.6	E	[35] 28	[9.2] 7.4	E	[1,300] 1,000	[340] 260	E	[3,500] 2,800	[920] 740	E	[13] 10	[3.4] 2.6	E	[35] 28	[9.2] 7.4	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)ETHER	542-88-1	0.000079	0.000012	E	0.0004	0.00006	E	0.0079	[0.001] 0.0012	E	0.04	0.006	E	0.0079	[0.001] 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	[210] 170	[810] 660	E	[580] 470	[2,200] 1,800	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	[83] 0.62	[71] 0.53	E	[230] 2.1	[200] 1.8	E	[8,300] 62	[7,100] 53	E	[13,000] 210	[11,000] 180	E	[83] 0.62	[71] 0.53	E	[230] 2.1	[200] 1.8	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 OCTANOATE	1689-99-2	[8] 0.62	[360] 28	E	[8] 2.1	[360] 95	E	8	360	E	8	360	E	8	360	E	8	360	E	15
BUTADIENE, 1,3-	106-99-0	[0.021] 0.11	[0.0086] 0.045	E	[0.1] 0.37	[0.041] 0.15	E	[2.1] 11	[0.86] 4.5	E	[10] 37	[4.1] 15	E	[2.1] 11	[0.86] 4.5	E	[10] 37	[4.1] 15	E	NA
BUTYL ALCOHOL, N-	71-36-3	[420] 330	[50] 39	E	[1,20] 0	[140] 110	E	10,000	[5,000] 3,900	E	10,000	10,000	C	[4,200] 3,300	[500] 390	E	[10,000] 9,300	[1,400] 1,100	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	[210] 170	[1,300] 1,100	E	[580] 470	[3,700] 3,000	E	1,500	9,500	E	1,500	9,500	E	[210] 170	[1,300] 1,100	E	[580] 470	[3,700] 3,000	E	15
BUTYLBENZENE, SEC-	135-98-8	[420] 330	[980] 770	E	[1,20] 0	[2,800] 2,200	E	1,700	4,000	E	1,700	4,000	E	[420] 330	[980] 770	E	[1,200] 930	[2,800] 2,200	E	30
BUTYLBENZENE, TERT-	98-06-6	[420] 330	[760] 600	E	[1,20] 0	[2,200] 1,700	E	3,000	5,400	E	3,000	5,400	E	[420] 330	[760] 600	E	[1,200] 930	[2,200] 1,700	E	30
BUTYLBENZYL PHTHALATE	85-68-7	[38] 33	[3,200] 2,800	E	[180] 120	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	10
CAPTAN	133-06-2	[32] 28	[20] 17	E	50	31	E	50	31	E	50	31	E	50	31	E	50	31	E	NA
CARBARYL	63-25-2	[420] 330	[250] 190	E	[1,20] 0	[700] 550	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	[3.7] 3.2	[24] 20	E	[17] 11	[110] 70	E	120	760	E	120	760	E	[4] 3.2	[24] 20	E	[17] 11	[110] 70	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

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		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	100 X GW MSC		Generic Value	E
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] 0.23	[0.029] 0.027	E	[1.1] 0.81	[0.13] 0.097	E	[24] 23	[2.9] 2.7	E	[110] 81	[13] 9.7	E	[0.24] 0.23	[0.029] 0.027	E	[1.1] 0.81	[0.1] 0.097	E	NA
[CHLOROACETOPHENONE, 2-]	[532-27-4]	[0.13]	[0.039]	[E]	[0.35]	[0.11]	[E]	[13]	[3.9]	[E]	[35]	[11.0]	[E]	[130]	[39]	[E]	[350]	[110]	[E]	[NA]
CHLOROANILINE, P-	106-47-8	[0.37] 0.32	[0.47] 0.4	E	[1.7] 1.1	[2.1] 1.4	E	[37] 32	[47] 40	E	[170] 110	[210] 140	E	[0.37] 0.32	[0.47] 0.4	E	[1.7] 1.1	[2.1] 1.4	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	[0.66] 0.58	[4.4] 3.8	E	[3.1] 2	[20] 13	E	[66] 58	[440] 380	E	[310] 200	[2,000] 1,300	E	[660] 580	[4,400] 3,800	E	1,300	8,600	E	15
CHLOROBUTANE, 1-	109-69-3	[170] 130	[270] 200	E	[470] 370	[730] 580	E	10,000	10,000	C	10,000	10,000	C	[170] 130	[270] 200	E	[470] 370	[730] 580	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	[25] 2,100	[5.4] 450	E	[120] 8,800	[26] 1,900	E	[2,500] 10,000	[540] 10,000	[E] C	10,000	[2,600] 10,000	[E] C	[2,500] 10,000	[540] 10,000	[E] C	10,000	[2,600] 10,000	[E] 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	[330] 270	[7,000] 5,800	E	[930] 750	[20,000] 16,000	E	1,200	26,000	E	1,200	26,000	E	[330] 270	[7,000] 5,800	E	[930] 750	[20,000] 16,000	E	15
CHLORONITROBENZENE, P-	100-00-5	[4.2] 0.42	[5.5] 0.55	E	[12] 1.8	[16] 2.4	E	[420] 42	[550] 55	E	[1,200] 180	[1,600] 240	E	[4.2] 0.42	[5.5] 0.55	E	[12] 1.8	[16] 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
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	[24] 20	[61] 51	E	60	150	E	60	150	E	60	150	E	[24] 20	[61] 51	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

¹ For other options see Section 250.308

All concentrations in mg/kg

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NA – [The soil buffer distance option is not available for this substance] **Not applicable**

[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

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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	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		E			
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	[210] 67	[29] 9.3	E	[580] 190	[80] 26	E	[19,000] 6,700	[2,600] 930	E	19,000	2,600	E	[210] 67	[29] 9.3	E	[580] 190	[80] 26	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] 0.17	[230] 210	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	[0.33] 0.27	[0.25] 0.2	E	[0.93] 0.75	[0.7] 0.57	E	[33] 27	[25] 20	E	[93] 75	[70] 57	E	[330] 27	[250] 20	E	[930] 75	[700] 57	E	NA
CRESOL, O- (2-METHYLPHENOL)	95-48-7	[210] 170	[35] 28	E	[580] 470	[96] 78	E	[21,000] 17,000	[3,500] 2,800	E	[58,000] 47,000	[9,600] 7,800	E	[21,000] 17,000	[3,500] 2,800	E	[58,000] 47,000	[9,600] 7,800	E	NA
CRESOL, M- (3-METHYLPHENOL)	108-39-4	[210] 170	[41] 34	E	[580] 470	[110] 93	E	10,000	[4,100] 3,400	E	10,000	[10,000] 9,300	[C] E	10,000	10,000	C	10,000	10,000	C	NA
CRESOL, P- (4-METHYLPHENOL)	106-44-5	[21] 17	[4.9] 4	E	[58] 47	[14] 11	E	[2,100] 1,700	[490] 400	E	[5,800] 4,700	[1,400] 1,100	E	[21,000] 17,000	[4,900] 4,000	E	[58,000] 47,000	[14,000] 11,000	E	NA
CRESOL, P-CHLORO-M-	59-50-7	[420] 330	[870] 680	E	[1,200] 930	[2,500] 1,900	E	[42,000] 33,000	[87,000] 68,000	E	[120,000] 93,000	190,000	C	[420] 330	[870] 680	E	[1,200] 930	[2,500] 1,900	E	30
CROTONALDEHYDE	4170-30-3	[0.038] 0.033	[0.0048] 0.0041	E	[0.18] 0.12	[0.023] 0.015	E	[3.8] 3.3	[0.48] 0.41	E	[18] 12	[2.3] 1.5	E	[3.8] 3.3	[0.48] 0.41	E	[18] 12	[2.3] 1.5	E	NA
CROTONALDEHYDE, TRANS-	123-73-9	[0.038] 0.033	[0.0048] 0.0042	E	[0.18] 0.12	[0.023] 0.015	E	[3.8] 3.3	[0.48] 0.42	E	[18] 12	[2.3] 1.5	E	[3.8] 3.3	[0.48] 0.42	E	[18] 12	[2.3] 1.5	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

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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			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					
CYROMAZINE	66215-27-8	[31] 50	[96] 160	E	[88] 140	[270] 440	E	[3,100] 5,000	[9,600] 16,000	E	[8,800] 14,000	[27,000] 44,000	E	[31] 50	[96] 160	E	[88] 140	[270] 440	E	20
DDD, 4,4'-	72-54-8	[0.3] 0.26	[33] 29	E	[1.4] 0.92	[150] 100	E	16	1,800	E	16	1,800	E	16	1,800	E	16	1,800	E	10
DDE, 4,4'-	72-55-9	[0.21] 0.19	[46] 41	E	[1] 0.65	[220] 140	E	4	870	E	4	870	E	4	870	E	4	870	E	10
DDT, 4,4'-	50-29-3	[0.21] 0.19	[130] 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
DIALLATE	2303-16-4	[1.2] 1	[0.7] 0.59	E	[5.6] 3.6	[3.3] 2.1	E	[120] 100	[70] 59	E	[560] 360	[330] 210	E	[1,200] 1,000	[700] 590	E	[4,000] 3,600	[2,300] 2,100	E	NA
DIAMINOTOLUENE, 2,4'-	95-80-7	[0.018] 0.016	[0.0036] 0.0032	E	[0.08] 5] 0.055	[0.017] 0.011	E	[1.8] 1.6	[0.36] 0.32	E	[8.5] 5.5	[1.7] 1.1	E	[18] 16	[3.6] 3.2	E	[85] 55	[17] 11	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	[0.0055] 0.0051	[25] 23	E	[0.06] 0.054	[270] 240	E	0.06	270	E	0.06	270	E	0.06	270	E	0.06	270	E	5
DIBENZOFURAN	132-64-9	[4.2] 3.3	[110] 85	E	[12] 9.3	[310] 240	E	[420] 330	[11,000] 8,500	E	450	12,000	E	[450] 330	[12,000] 8,500	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	[42] 33	[170] 140	E	[120] 93	[490] 380	E	2,000	8,200	E	2,000	8,200	E	[42] 33	[170] 140	E	[120] 93	[490] 380	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	[420] 330	[1,700] 1,400	E	[1,20] 930	[4,900] 3,800	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

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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		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
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] 0.067	E		0.6	0.34	E	0.0012	[0.0007] 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	[0.16] 0.14	[8.8] 7.7	E	[0.76] 0.49	[42] 27	E		[16] 14	[880] 770	E		[76] 49	[4,200] 2,700	E	[160] 140	[8,800] 7,700	E	310	17,000	E	10
DICHLORODIFLUOROMETHANE (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	[0.73] 0.63	[0.13] 0.11	E	[3.4] 2.2	[0.61] 0.39	E		[73] 63	[13] 11	E		[340] 220	[61] 39	E	[73] 63	[13] 11	E	[340] 220	[61] 39	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	[0.25] 0.22	[0.059] 0.052	E	[1.2] 0.76	[0.28] 0.18	E		[25] 22	[5.9] 5.2	E		[120] 76	[28] 18	E	[0.25] 0.22	[0.059] 0.052	E	[1.2] 0.76	[0.28] 0.18	E	NA

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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		E			
DICYCLOPENTADIENE	77-73-6	0.063	0.13	E	0.26	0.56	E	[6] 6.3	13	E	26	56	E	[0.1] 0.063	[0.1] 0.13	E	[0.3] 0.26	[1] 0.56	E	30
DIELDRIN	60-57-1	[0.0046] 0.004	[0.13] 0.11	E	[0.02] 0.014	[0.58] 0.39	E	[0.46] 0.4	[13] 11	E	[2.1] 1.4	[58] 39	E	[4.6] 4	[130] 110	E	[17] 14	[470] 390	E	15
[DIETHANOLAMINE]	[111-42-2]	[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]
DIETHYL PHTHALATE	84-66-2	[3,300] 2,700	[1,000] 850	E	[9,300] 7,500	[2,900] 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	[0.83] 7.3	[0.32] 2.8	E	[2.3] 21	[0.89] 8.1	E	[83] 730	[32] 280	E	[230] 2,100	[89] 810	E	[830] 7,300	[320] 2,800	E	[2,300] 21,000	[890] 8,100	E	NA
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[0.046] 0.04	[0.15] 0.13	E	[0.21] 0.14	[0.71] 0.47	E	[5] 4	[15] 13	E	[21] 14	[71] 47	E	[46] 40	[150] 130	E	[210] 140	[710] 470	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	[0.016] 0.014	[0.042] 0.037	E	[0.07] 0.048	[0.19] 0.13	E	[1.6] 1.4	[4.2] 3.7	E	[7.4] 4.8	[19] 13	E	[16] 14	[42] 37	E	[74] 48	[190] 130	E	20
DIMETHYLANILINE, N,N-	121-69-7	[8.3] 2.3	[4.7] 1.3	E	[23] 8.1	[13] 4.5	E	[830] 230	[470] 130	E	[2,300] 810	[1,300] 450	E	[830] 230	[470] 130	E	[2,300] 810	[1,300] 450	E	NA
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.0066] 0.0058	[0.36] 0.32	E	[0.03] 0.02	[1.7] 1.1	E	[0.7] 0.58	[36] 32	E	[3.1] 2	[170] 110	E	[7] 5.8	[360] 320	E	[31] 20	[1,700] 1,100	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	[83] 67	[36] 29	E	[230] 190	[100] 83	E	[8,300] 6,700	[3,600] 2,900	E	10,000	[10,000] 8,300	[C] 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	[8.3] 6.7	[0.94] 0.76	E	[23] 23	[2.6] 2.1	E	[830] 670	[94] 76	E	[2,300] 1,900	[260] 210	E	[8,300] 6,700	[940] 760	E	[23,000] 19,000	[2,600] 2,100	E	NA

¹ For other options see Section 250.308

All concentrations in mg/kg

E – Number calculated by the soil to groundwater equation is section 250.308

C – Cap

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[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

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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			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					
DINITROTOLUENE, 2,4-	121-14-2	[0.24] 0.2	[0.057] 0.048	E	[1.1] 0.71	[0.26] 0.17	E	[24] 20	[6] 4.8	E	[110] 71	[26] 17	E	[240] 200	[57] 48	E	[1,100] 710	[260] 170	E	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[0.049] 0.042	[0.015] 0.012	E	[0.23] 0.15	[0.068] 0.044	E	[5] 4.2	[2] 1.2	E	[23] 15	[7] 4.4	E	[49] 42	[15] 12	E	[230] 150	[68] 44	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] 0.63	[0.084] 0.082	E	[3.2] 2.2	[0.42] 0.29	E	[64] 63	[8.4] 8.2	E	[320] 220	[42] 29	E	[6.4] 6.3	[0.84] 0.82	E	[32] 22	[4.2] 2.9	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	[100] 330	[59] 190	E	[290] 930	[170] 550	E	[10,000] 30,000	[5,900] 18,000	E	[29,000] 30,000	[17,000] 18,000	E	30,000	18,000	E	30,000	18,000	E	NA
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[0.091] 0.022	[0.16] 0.039	E	[0.43] 0.11	[0.76] 0.19	E	[9.1] 2.2	[16] 3.9	E	[25] 11	[44] 19	E	[25] 2.2	[44] 3.9	E	[25] 11	[44] 19	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	[8.3] 6.7	[7.1] 5.8	E	[23] 19	[20] 16	E	[830] 670	[710] 580	E	[2,300] 1,900	[2,000] 1,600	E	[8.3] 6.7	[7.1] 5.8	E	[23] 19	[20] 16	E	NA
ENDOSULFAN	115-29-7	[25] 20	[130] 100	E	48	250	E	48	250	E	48	250	E	48	250	E	48	250	E	15
ENDOSULFAN I (ALPHA)	959-98-8	[25] 20	[130] 100	E	50	260	E	50	260	E	50	260	E	25	130	E	50	260	E	15
ENDOSULFAN II (BETA)	33213-65-9	[25] 20	[150] 120	E	45	260	E	45	260	E	45	260	E	25	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	[21] 17	[2.4] 2	E	[58] 47	[6.7] 5.5	E	[2,100] 1,700	[240] 200	E	[5,800] 4,700	[670] 550	E	[21] 17	[2.4] 2	E	[58] 47	[6.7] 5.5	E	NA
ETHION	563-12-2	[2.1] 1.7	[46] 37	E	[5.8] 4.7	[130] 100	E	85	1,900	E	85	1,900	E	[2.1] 1.7	[46] 37	E	[5.8] 4.7	[130] 100	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

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All concentrations in mg/kg

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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					
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	[1.5] 1.3	[0.58] 0.5	E	[7.0] 4.6	[2.7] 1.8	E	[150] 130	[58] 50	E	[700] 460	[270] 180	E	[150] 130	[58] 50	E	[700] 460	[270] 180	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	[100] 170	[71] 120	E	[290] 470	[210] 330	E	10,000	[7,100] 10,000	[E] C	10,000	10,000	C	[100] 170	[71] 120	E	[290] 470	[210] 330	E	NA
ETHYL ETHER	60-29-7	[830] 670	[230] 190	E	[2,300] 1,900	[650] 530	E	10,000	10,000	C	10,000	10,000	C	[830] 670	[230] 190	E	[2,300] 1,900	[650] 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	[83] 67	[10] 7.7	E	[230] 190	[26] 22	E	[8,300] 6,700	[950] 770	E	10,000	[2,600] 2,200	E	[83] 67	[10] 7.7	E	[230] 190	[26] 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	[0.33] 0.27	[0.037] 0.03	E	[0.93] 0.75	[0.1] 0.084	E	[33] 27	[3.7] 3	E	[93] 75	[10] 8.4	E	[330] 270	[37] 30	E	[930] 750	[100] 84	E	NA
ETHYLP-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	[0.042] 0.033	[0.13] 0.1	E	[0.12] 0.093	[0.37] 0.29	E	[4.2] 3.3	[13] 10	E	[12] 9.3	[37] 29	E	[0.042] 0.033	[0.13] 0.1	E	[0.12] 0.093	[0.37] 0.29	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	[170] 130	[3,400] 2,600	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	0.063	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

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		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					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					
FOSETYL-AL	39148-24-8	[13,000] 0 8,400	[12,000] 7,400	E	[35,000] 23,000 0	[31,000] 20,000 0	E	190,000	190,000	C	190,000	190,000	C	[13,000] 0 8,400	[12,000] 0 7,400	E	[35,000] 23,000 0	[31,000] 20,000 0	E	NA
FURAN	110-00-9	[4.2] 3.3	[1.8] 1.4	E	[12] 9.3	[5.2] 4.1	E	[420] 330	[180] 140	E	[1,200] 930	[520] 410	E	[420] 330	[180] 140	E	[1,200] 930	[520] 410	E	NA
FURFURAL	98-01-1	[11] 1.8	[1.4] 0.23	E	[35] 6.3	[4.4] 0.8	E	[1,100] 180	[140] 23	E	[3,500] 630	[440] 80	E	[11] 1.8	[1.4] 0.23	E	[35] 6.3	[4.4] 0.8	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	[0.94] 0.81	[11] 9.6	E	[4.4] 2.8	[52] 33	E	[94] 81	[1,100] 960	E	[290] 280	[3,400] 3,300	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
HEXANE	110-54-3	150	1,400	E	[620] 560	[5,600] 5,100	E	950	8,700	E	950	8,700	E	150	1,400	E	[620] 560	[5,600] 5,100	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	0.005 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] 1.1	[0.16] 0.15	E	[5.7] 3.7	[0.77] 0.5	E	[120] 110	[16] 15	E	[570] 370	[77] 50	E	[1,200] 1,100	[160] 150	E	[5,700] 3,700	[770] 500	E	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.019] 0.017	[1,500] 1,300	E	[0.28] 0.18	[22,000] 0 14,000	E	[1.9] 1.7	[150,000] 0 130,000 0	E	6.2	190,000	C	6.2	190,000	C	6.2	190,000	C	5
IPRODIONE	36734-19-7	[170] 1.4	[490] 4	E	[470] 5	[1,300] 14	E	[1,300] 140	[3,700] 400	E	[1,300] 500	[3,700] 1,400	E	[170] 1.4	[490] 4	E	[470] 5	[1,300] 14	E	20

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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		E			
ISOBUTYL ALCOHOL	78-83-1	[1,300] 1,000	[340] 260	E	[3,500] 0 2,800	[910] 730	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	[0.0073]] 0.0063	[1] 0.87	E	[0.034] 0.022	[4.7] 3	E	[0.73] 0.63	[100] 87	E	[3.4] 2.2	[470] 300	E	[7.3] 6.3	[1,000] 870	E	[34] 22	[4,700] 3000	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	[21] 1.1	[2] 0.12	E	[58] 3.7	[6.6] 0.42	E	[2,100] 110	[240] 12	E	[2,300] 370	[260] 42	E	[21] 1.1	[2] 0.12	E	[58] 3.7	[6.6] 0.42	E	NA
MERPHOS OXIDE	78-48-8	[0.13] 3.3	[17] 440	E	[0.35] 9.3	[46] 1,200	E	[13] 230	[1,700] 10,000	[E] C	[35] 230	[4,600] 10,000	[E] C	[0.13] 3.3	[17] 440	E	[0.35] 9.3	[46] 1,200	E	10
METHACRYLONITRILE	126-98-7	[0.42] 0.33	[0.069] 0.054	E	[1.2] 0.93	[0.2] 0.15	E	[42] 33	[6.9] 5.4	E	[120] 93	[20] 15	E	[0.42] 0.33	[0.069]] 0.054	E	[1.2] 0.93	[0.2] 0.15	E	NA
METHAMIDOPHOS	10265-92-6	[0.21] 0.17	[0.026] 0.021	E	[0.58] 0.47	[0.072] 0.058	E	[21] 17	[2.6] 2.1	E	[58] 47	[7.2] 5.8	E	[0.21] 0.17	[0.026]] 0.021	E	[0.58] 0.47	[0.072] 0.058	E	NA
METHANOL	67-56-1	[840] 4,200	[99] 500	E	[3,500] 0 10,000 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	0.48	E	18	2	E	420	48	E	1,800	200	E	42	4.8	E	180	20	E	NA
METHYL ACETATE	79-20-9	[4,200] 3,300	[780] 610	E	[10,000] 0 9,300	[2,200] 1,700	E	10,000	10,000	C	10,000	10,000	C	[4,200] 3,300	[780] 610	E	[10,000] 0 9,300	[2,200] 1,700	E	NA
METHYL ACRYLATE	96-33-3	[4] 4.2	1	E	18	[5] 4.5	E	420	100	E	1,800	450	E	420	100	E	1,800	450	E	NA

¹ For other options see Section 250.308

All concentrations in mg/kg

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[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

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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 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					
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	[330] 270	[51] 41	E	[930] 750	[140] 120	E	10,000	[5,100] 4,100	E	10,000	10,000	C	10,000	[5,100] 4,100	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
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	[0.74] 0.64	[0.092] 0.079	E	[3.4] 2.2	[0.42] 0.27	E	[74] 64	[9.2] 7.9	E	[340] 220	[42] 27	E	[0.74] 0.64	[0.092] 0.079	E	[3.4] 2.2	[0.42] 0.27	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	[0.23] 0.21	[1.8] 1.6	E	[3.4] 2.2	[26] 17	E	[23] 21	[180] 160	E	[340] 220	[2,600] 1,700	E	[0.23] 0.21	[1.8] 1.6	E	[3.4] 2.2	[26] 17	E	15
METHYLNAPHTHALENE, 2-	91-57-6	[17] 0.63	[680] 25	E	[47] 2.6	[1,900] 100	E	[1,700] 63	[68,000] 2,500	E	[2,500] 260	[100,000] 0 10,000	E	[17] 0.63	[680] 25	E	[47] 2.6	[1,900] 100	E	15
METHYLSTYRENE, ALPHA	98-83-9	[290] 230	[510] 410	E	[820] 650	[1,400] 1,100	E	10,000	10,000	C	10,000	10,000	C	[290] 230	[510] 230	E	[820] 650	[1,400] 1,100	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
MEVINPHOS	7786-34-7	0.084	0.019	E	0.23	0.051	E	8.4	1.9	E	23	5.1	E	0.084	0.019	E	0.23	0.051	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	[3,000] 1,000	[7,500] 2,500	E	[3,000] 1,000	[7,500] 2,500	E	30
NAPHTHYLAMINE, 1-	134-32-7	[0.041] 0.035	[0.33] 0.28	E	[0.19] 0.12	[1.5] 0.97	E	[4.1] 3.5	[33] 28	E	[19] 12	[150] 97	E	[41] 3.5	[330] 28	E	[190] 12	[1,500] 97	E	15

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		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					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					
NAPHTHYLAMINE, 2-	91-59-8	[0.041] 0.035	[0.013] 0.012	E	[0.19] 0.12	[0.062] 0.039	E	4.1] 3.5	[1.3] 1.2	E	[19] 12	[6.2] 3.9	E	[41] 35	[13] 12	E	[190] 120	[62] 39	E	NA
NAPROPAMIDE	15299-99-7	[420] 400	[970] 920	E	[1,20 0] 1,100	[2,800] 2,500	E	7,000	16,000	E	7,000	16,000	E	[420] 400	[970] 920	E	[1,200] 1,100	[2,800] 2,500	E	30
NITROANILINE, O-	88-74-4	[42] 0.011	[8] 0.002	E	[120] 0.044	[21] 0.0079	E	[4,200] 1.1	[750] 0.2	E	[12,000] 4.4	[2,100] 0.79	E	[42] 0.011	[8] 0.002	E	[120] 0.044	[21] 0.0079	E	NA
NITROANILINE, P-	100-01-6	[3.7] 3.2	[0.55] 0.48	E	[17] 11	[2.5] 1.6	E	[370] 320	[55] 48	E	[1,700] 1,100	[250] 160	E	[3.7] 3.2	[0.55] 0.48	E	[17] 11	[2.5] 1.6	E	NA
NITROBENZENE	98-95-3	[8.3] 0.12	[3.6] 0.052	E	[23] 0.63	[10] 0.27	E	[830] 12	[360] 5.2	E	[2,300] 63	[1,000] 27	E	[8,300] 12	[3,600] 5.2	E	[10,000] 63	[10,00 0] 27	C	NA
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	[33] 27	[6.7] 5.5	E	[93] 75	[19] 15	E	[3,300] 2,700	[670] 550	E	[9,300] 7,500	[1,900] 1,500	E	[33,000] 2,700	[6,700] 550	E	[93,000] 7,500	[19,00] 1,5000	E	NA
NITROPHENOL, 4-	100-02-7	6	4.1	E	6	4.1	E	600	410	E	600	410	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	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] 0.0007 9	E	0.058	0.01	E	0.00045	[0.00008] 0.00007 9	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	0.0014	0.00019	E	0.018	0.0024	E	NA
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.014] 0.0031	[0.017] 0.0038	E	[0.06 3] 0.016	[0.078] 0.02	E	[1.4] 0.31	[1.7] 0.38	E	[6.3] 1.6	[7.8] 2	E	[14] 0.31	[17] 0.38	E	[63] 1.6	[78] 2	E	NA
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.01] 0.0025	[0.0014] 0.00035	E	[0.04 9] 0.013	[0.0068] 0.0018	E	[1] 0.25	[0.14] 0.035	E	[4.9] 1.3	[0.68] 0.18	E	[10] 0.025	[1.4] 0.0035	E	[49] 0.13	[6.8] 0.018	E	NA
NITROSODIPHENYLAMINE, N-	86-30-6	[15] 1.9	[23] 3	E	[69] 9.6	[110] 15	E	[1,500] 190	[2,300] 300	E	[3,500] 960	[5,500] 1,500	E	[3,500] 190	[5,500] 300	E	[3,500] 960	[5,500] 1,500	E	30

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		TDS ≤ 2500 mg/L					TDS > 2500 mg/L					Residential		Nonresidential							
		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		
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.0008 4] 0.0007 7	[0.000097] E 0.000089	[0.01 3] 0.008 1	[0.001 5] 0.0009 3	E	[0.08] 0.077	[0.0097] E 0.0089	[1.3] 0.81	[0.15] 0.093	E	[0.8] 0.77	[0.097] 0.089	E	[13] 8.1	[1.5] 0.93	E	NA			
OCTYL PHTHALATE, DI-N-	117-84-0	[42] 33	10,000 C	[120] 93	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	[25] 0.1	[150] 0.59	E	[70] 0.28	E	[410] 1.6	E	[2,000] 10	[10,000] 159	E	[2,000] 28	[10,000] 160	E	[25] 0.1	[150] 0.59	E	[70] 0.28	[410] 1.6	E	15
PCBs, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	1336-36-3	0.05	0.0056 E	0.05	0.0056 E		5	0.56 E	5	0.56 E		0.05	0.005 E 6	0.05	0.0056 E		NA				
[PCB-1016 (AROCLOR)]	[12674-11-2]	[0.037]	[10] [E]	[0.17]	[47] [E]		[4]	[1,000] [E]	[17]	[4,700] [E]		[0.04]	[10] [E]	[0.17]	[47] [E]		[10]				
[PCB-1221 (AROCLOR)]	[11104-28-2]	[0.037]	[0.18] [E]	[0.17]	[0.83] [E]		[3.7]	[18] [E]	[17]	[83] [E]		[0.037]	[0.18] [E]	[0.17]	[0.83] [E]		[20]				
[PCB-1232 (AROCLOR)]	[11141-16-5]	[0.037]	[0.14] [E]	[0.17]	[0.7] [E]		[3.7]	[14] [E]	[17]	[66] [E]		[0.037]	[0.14] [E]	[0.17]	[0.7] [E]		[20]				
[PCB-1242 (AROCLOR)]	[53469-21-9]	[0.037]	[4] [E]	[0.17]	[20] [E]		[3.7]	[440] [E]	[10]	[1,200] [E]		[0.037]	[4] [E]	[0.17]	[20] [E]		[10]				
[PCB-1248 (AROCLOR)]	[12672-29-6]	[0.037]	[18] [E]	[0.17]	[81] [E]		[3.7]	[1,800] [E]	[5.4]	[2,600] [E]		[0.037]	[18] [E]	[0.17]	[81] [E]		[10]				
[PCB-1254 (AROCLOR)]	[11097-69-1]	[0.037]	[75] [E]	[0.17]	[340] [E]		[3.7]	[7,500] [E]	[5.7]	[10,000] [C]		[0.037]	[75] [E]	[0.17]	[340] [E]		[5]				

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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					
[PCB-1260 (AROCOR)]	[11096-82-5]	[0.037]	[170]	[E]	[0.17]	[770]	[E]	[3.7]	[17,000]	[E]	[8]	[36,000]	[E]	[0.037]	[170]	[E]	[0.17]	[770]	[E]	[5]
PEBULATE	1114-71-2	[210] 170	[350] 290	E	[580] 470	[980] 790	E	9,200	10,000	C	9,200	10,000	C	[210] 170	[350] 290	E	[580] 470	[980] 790	E	30
PENTACHLOROBENZENE	608-93-5	[3.3] 2.7	[260] 220	E	[9.3] 7.5	[750] 600	E	74	5,900	E	74	5,900	E	74	5,900	E	74	5,900	E	10
PENTACHLOROETHANE	76-01-7	[0.81] 0.7	[3.9] 3.4	E	[3.8] 2.4	[19] 12	E	[81] 70	[390] 340	E	[380] 240	[1,900] 1,200	E	[0.81] 0.7	[3.9] 3.4	E	[3.8] 2.4	[19] 12	E	20
PENTACHLORO NITROBENZENE	82-68-8	[0.28] 0.24	[6] 4.8	E	[1] 0.85	[26] 17	E	[28] 24	[560] 480	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
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	10,000	NA	C	10,000	NA	C	10,000	NA	C	10,000	NA	C	10,000	NA	C	10,000	NA	C	NA
PERFLUOROCTANE SULFONATE (PFOS)	1763-23-1	0.007	NA	E	0.007	NA	E	0.7	NA	E	0.7	NA	E	0.007	NA	E	0.007	NA	E	NA
PERFLUOROCTANOIC ACID (PFOA)	335-67-1	0.007	NA	E	0.007	NA	E	0.7	NA	E	0.7	NA	E	0.007	NA	E	0.007	NA	E	NA
PHENACETIN	62-44-2	[33] 29	[13] 11	E	[150] 100	[58] 39	E	[3,300] 2,900	[1,300] 1,100	E	[15,000] 10,000	[5,800] 3,900	E	[33,000] 29,000	[13,000] 11,000	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	[4,200] 3.3	[6,400] 5	E	[12] 9.3	[18] 14	E	[420] 330	[640] 500	E	[1,200] 930	[1,800] 1,400	E	[4.2] 3.3	[6.4] 5	E	[12] 9.3	[18] 14	E	30
PHENYLENEDIAMINE, M-	108-45-2	[25] 20	[3.5] 2.8	E	[70] 56	[9.9] 7.9	E	[2,500] 2,000	[350] 280	E	[7,000] 5,600	[990] 790	E	[25,000] 20,000	[3,500] 2,800	E	[70,000] 56,000	[9,900] 7,900	E	NA
PHENYLPHENOL, 2-	90-43-7	[38] 33	[550] 470	E	[180] 110	[2,600] 1,600	E	[3,800] 3,300	[55,000] 47,000	E	[18,000] 11,000	[190,000] 160,000	C	[38,000] 33,000	190,000 0	C	70,000	190,000 0	C	15
PHORATE	298-02-2	[0.83] 0.67	[1.8] 1.4	E	[2] 1.9	[4.9] 4.1	E	[83] 67	[180] 140	E	[230] 190	[490] 410	E	[0.83] 0.67	[1.8] 1.4	E	[2] 1.9	[4.9] 4.1	E	30

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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					
PHTHALIC ANHYDRIDE	85-44-9	[8,300] 4.2	[2,600] 1.3	E	[23,000] 18	[7,100] 5.6	E	[190,000] 420	[190,000] 130	C	[190,000] 1,800	[190,000] 560	C	[190,000] 420	[190,000] 130	C	[190,000] 1,800	[190,000] 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
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	[310] 250	[190] 150	E	[880] 700	[540] 430	E	1,500	920	E	1,500	920	E	[310] 250	[190] 150	E	[880] 700	[540] 430	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	[21] 17	[11] 8.7	E	[58] 47	[30] 24	E	[2,100] 1,700	[1,100] 870	E	[5,800] 4,700	[3,000] 2,400	E	[21] 17	[11] 8.7	E	[58] 47	[30] 24	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	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	[0.3] 0.26	[0.052] 0.045	E	[1.4] 0.92	[0.24] 0.16	E	[30] 26	[5.2] 4.5	E	[140] 92	[24] 16	E	[0.3] 0.26	[0.052] 0.045	E	[1.4] 0.92	[0.24] 0.16	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	[4.2] 3.3	[0.47] 0.37	E	[12] 9.3	[1.3] 1	E	[420] 330	[47] 37	E	[1,200] 930	[130] 100	E	[42] 33	[4.7] 3.7	E	[120] 93	[13] 10	E	NA
QUINOLINE	91-22-5	[0.024] 0.021	[0.081] 0.071	E	[0.11] 0.073	[0.37] 0.25	E	[2.4] 2.1	[8.1] 7.1	E	[11] 7.3	[37] 25	E	[24] 21	[81] 71	E	[110] 73	[370] 250	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	[8,300] 6,700	[970] 780	E	[23,000] 19,000 0	[2,700] 2,200	E	190,000	[97,000] 78,000	E	190,000	190,000	C	[8,300] 6,700	[970] 780	E	[23,000] 19,000 0	[2,700] 2,200	E	NA
RONNEL	299-84-3	[210] 170	[330] 270	E	[580] 470	[910] 730	E	4,000	6,200	E	4,000	6,200	E	[210] 170	[330] 270	E	[580] 470	[910] 730	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

¹ For other options see Section 250.308

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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			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					
STRYCHNINE	57-24-9	[1.3] 1	[1.1] 0.81	E	[3.5] 2.8	[2.8] 2.3	E	[130] 100	[110] 81	E	[350] 280	[280] 230	E	[1,300] 1,000	[1,100] 810	E	[3,500] 2,800	[2,800] 2,300	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	[1.3] 1	[6] 4.6	E	[3.5] 2.8	[16] 13	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	0.00003	0.032	E	0.00003	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] 0.084	0.026	E	0.43	0.13	E	[8] 8.4	2.6	E	43	13	E	[8] 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
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[130] 100	[2,000] 1,600	E	[350] 280	[5,500] 4,400	E	[13,000] 10,000	[190,000] 160,000	[C] E	18,000	190,000	C	18,000	190,000	C	18,000	190,000	C	15
TETRAETHYL LEAD	78-00-2	[0.00042] 0.00033	[0.0052] 0.0041	E	[0.0012] 0.00093	[0.015] 0.011	E	[0.042] 0.033	[0.52] 0.41	E	[0.1] 0.093	[1.5] 1.1	E	[0.42] 0.33	[0.52] 4.1	E	[1] 0.93	[15] 11	E	15
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	[2.1] 1.7	[3.1] 2.5	E	[5.8] 4.7	[8.6] 7	E	[210] 170	[310] 250	E	[580] 470	[860] 700	E	[2.1] 1.7	[3.1] 2.5	E	[5.8] 4.7	[8.6] 7	E	30
TETRAHYDROFURAN	109-99-9	[2.6] 2.5	[0.57] 0.55	E	13	2.8	E	[260] 250	[57] 55	E	1,300	280	E	[2.6] 2.5	[0.57] 0.55	E	13	2.8	E	NA
THIOFANOX	39196-18-4	[1.3] 1	[0.14] 0.11	E	[3.5] 2.8	[0.39] 0.31	E	[130] 100	[14] 11	E	[350] 280	[39] 31	E	[1.3] 1	[0.14] 0.11	E	[3.5] 2.8	[0.39] 0.31	E	NA
THIRAM	137-26-8	[21] 50	[55] 130	E	[58] 140	[150] 370	E	[2,100] 3,000	[5,500] 7,800	E	3,000	7,800	E	[21] 50	[55] 130	E	[58] 140	[150] 370	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

¹ For other options see Section 250.308

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					
TOLUIDINE, M-	108-44-1	[4.6] 4	[2.1] 1.8	E	[21] 14	[9.7] 6.5	E	[460] 400	[210] 180	E	[2,100] 1,400	[970] 650	E	[4.6] 4	[2.1] 1.8	E	[21] 14	[9.7] 6.5	E	NA
TOLUIDINE, O-	95-53-4	[4.6] 4	[5.2] 4.5	E	[21] 14	[24] 16	E	[460] 400	[520] 450	E	[2,100] 1,400	[2,400] 1,600	E	[4,600] 4,000	[5,200] 4,500	E	10,000	10,000	C	NA
TOLUIDINE, P-	106-49-0	[2.4] 2.1	[2.2] 1.9	E	[11] 7.3	[10] 6.7	E	[240] 210	[220] 190	E	[1,100] 730	[1,000] 670	E	[2.4] 2.1	[2.2] 1.9	E	[11] 7.3	[10] 6.7	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	[54] 0.088	[280] 0.45	E	[150] 0.31	[770] 1.6	E	[400] 8.8	[2,000] 45	E	[400] 31	[2,000] 160	E	[54] 0.0888	[280] 0.45	E	[150] 0.31	[770] 1.6	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] 1,100	[10,000] 3,400	[C] E	[10,00] 4,4000	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] 6	[0.32] 0.97	E	[2] 6	[0.32] 0.97	E	[200] 600	[32] 97	E	[200] 600	[32] 97	E	[2] 6	[0.32] 0.97	E	[2] 6	[0.32] 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	[4,400] 700	[10,00] 2,700	[C] E	[4,400] 700	[10,00] 2,700	[C] 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	[420] 330	[2,600] 2,000	E	[1,20] 9300	[7,300] 5,700	E	[42,000] 33,000	190,000	C	[100,000] 93,000	190,000	C	100,000	190,000	C	100,000	190,000	C	15
TRICHLOROPHENOL, 2,4,6-	88-06-2	[4.2] 3.3	[12] 9.4	E	[12] 9.3	[34] 27	E	[420] 330	[1,200] 940	E	[1,200] 930	[3,400] 2,700	E	[4,200] 3,300	[12,00] 9,400	E	[12,000] 9,300	[34,00] 27,000	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

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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					
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	[21] 17	[3.6] 2.9	E	[58] 47	[9.9] 8	E	[2,100] 1,700	[360] 290	E	[5,800] 4,700	[990] 800	E	[21] 17	[3.6] 2.9	E	[58] 47	[9.9] 8	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
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	[8,300] 6,700	[1,000] 840	E	10,000	[2,900] 2,400	E	10,000	10,000	C	10,000	10,000	C	[8,300] 6,700	[1,000] 840	E	10,000	[2,900] 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	[1.5] 13	[8.4] 73	E	[6.2] 53	[35] 300	E	[150] 1,300	[840] 7,300	E	[620] 5,300	[3,500] 10,000	[] C	[150] 1,300	[840] 7,300	E	[620] 5,300	[3,500] 10,000	[] C	15
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[42] 13	[74] 23	E	[120] 53	[210] 93	E	[4,200] 1,300	[7,400] 2,300	E	4,900	8,600	E	[42] 13	[74] 23	E	[120] 53	[210] 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	0.073	E	0.78	0.38	E	15	7.3	E	78	38	E	1.5	0.73	E	7.8	3.8	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	[1.3] 1	[3.1] 2.4	E	[3.5] 2.8	[8.4] 6.7	E	[130] 100	[310] 240	E	[350] 280	[840] 670	E	[1,300] 1,000	[3,100] 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	[210] 170	[33] 27	E	[580] 470	[92] 75	E	1,000	160	E	1,000	160	E	[210] 170	[33] 27	E	[580] 470	[92] 75	E	NA

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