APPENDIX F
TIER 1 RBSLs FOR AN EXTENDED LIST OF CHEMICALS

This appendix presents Tier 1 RBSLs for an extended list of chemicals. Screening levels are presented for the following receptors and routes of exposure. The input parameters used to develop these screening levels are included in the following tables:

Exposure Factors:	Table 5-4
Fate and Transport Factors:	Table 5-5
Physical-Chemical Properties:	Table F-1
Toxicity Factors:	Table F-2

The models used to develop these screening levels are presented in Appendix C.

Note these levels are likely to be different from the EPA Region III due to difference in the exposure pathways e.g. Region III RBCs do not include the indoor inhalation pathway, and differences in exposure, and fate and transport factors.

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Exposure Factors:	Table 5-4
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Physical-Chemical Properties:	Table F-1
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Note these levels are likely to be different from the EPA Region III due to difference in the exposure pathways e.g. Region III RBCs do not include the indoor inhalation pathway, and differences in exposure, and fate and transport factors.

TABLE F-1
CHEMICAL - PHYSICAL PROPERTIES FOR AN EXTENDED LIST OF CHEMICALS

CHEMICAL	CAS #	Molecular Weight	Water Solubility (mg/L)	Henry's Law Constant (L-water/L-air)	Koc (cm^3/g)	Diffusion Coefficient in air (cm^2/s)	Diffusion Coefficient in water (cm^2/s)	log Kd
Acenaphthene	83-32-9	1.54E+02	4.24E+00	6.36E-03	4.60E+03	4.21E-02	7.69E-06	
Acetone	67-64-1	5.88E+01	1.00E+06	1.59E-03	5.75E-01	1.24E-01	1.14E-05	
Acrolein	107-02-8	5.61E+01	2.00E+05	1.83E-04	5.24E-01	1.05E-01	1.12E-05	
Anthracene	120-12-7	1.78E+02	4.34E-02	2.67E-03	1.84E+04	3.24E-02	7.74E-06	
Arsenic	7440-38-2	7.49E+01	NA	NA	NA	NA	NA	
Benzene	71-43-2	7.81E+01	1.75E+03	2.28E-01	6.61E+01	8.80E-02	9.80E-06	
Benzo(a)pyrene	50-32-8	2.52E+02	1.62E-03	4.63E-05	9.54E+05	4.30E-02	9.00E-06	
Benzo(b)fluoranthene	205-99-2	2.52E+02	1.50E-02	4.55E-04	5.50E+05	2.26E-02	5.56E-06	
Benzo(k)fluoranthene	207-08-9	2.52E+02	8.00E-04	3.40E-05	1.02E+06	2.26E-02	5.56E-06	
Benzo(a)anthracene	56-55-3	2.28E+02	9.40E-03	1.37E-04	1.38E+06	5.10E-02	9.00E-06	
Benzo(g,h,I)perylene	191-24-2	2.76E+02	2.64E-04	5.70E-06	1.58E+06	4.90E-02	5.65E-05	
Bromodichloromethane	75-27-4	1.64E+02	6.74E+03	6.56E-02	5.50E+01	2.98E-02	1.06E-05	
Bromoform	75-25-2	2.53E+02	3.10E+03	2.19E-02	1.26E+02	1.49E-02	1.03E-05	
Bromomethane	74-83-9	9.49E+01	1.52E+04	5.90E-01	9.00E+00	7.28E-02	1.21E-05	
Butylbenzylphthalate	85-68-7	3.12E+02	2.69E+00	5.17E-05	1.37E+04	1.74E-02	4.83E-06	
sec-Butylbenzene	135-98-8	1.34E+02	1.81E+01	5.07E-01	2.83E+03	5.76E-02	6.75E-06	
tert-Butylbenzene	98-06-6	1.34E+02	1.51E+01	8.56E-01	3.41E+03	5.84E-02	6.76E-06	
Cadmium - water	7440-43-9	1.12E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E+00
Cadmium - food	7440-43-9	1.12E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E+00
Carbon disulfide	75-15-0	7.61E+01	1.19E+03	1.24E+00	5.25E+01	1.04E-01	1.00E-05	
Carbon tetrachloride	56-23-5	1.54E+02	7.93E+02	1.25E+00	1.52E+02	7.80E-02	8.80E-06	
Chlordane	57-74-9	4.10E+02	5.60E-02	1.99E-03	5.13E+04	1.18E-02	4.37E-06	
4-Chloroaniline	106-47-8	1.28E+02	5.30E+03	1.36E-05	6.60E+01	4.83E-02	1.01E-05	
Chlorobenzene	108-90-7	1.13E+02	4.72E+02	1.52E-01	2.24E+02	7.30E-02	8.70E-06	
Chloroethane	75-00-3	6.45E+01	5.70E+03	3.65E-01	3.24E+00	8.50E-01	1.10E-05	
Chloroform	67-66-3	1.19E+02	7.92E+03	1.50E-01	5.25E+01	1.04E-01	1.00E-05	
Chloromethane	74-87-3	5.05E+01	7.25E+03	1.44E+00	2.51E+01	1.26E-01	6.50E-06	
Beta-chloronaphthalene	91-58-7	1.63E+02	6.74E+00	2.54E-02	8.51E+03	6.18E-02	6.98E-06	
2-Chlorophenol	95-57-8	1.29E+02	2.20E+04	1.60E-02	2.88E+02	5.01E-02	9.46E-06	
Chromium III	16065-83-1	5.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E+00
Chromium IV	18540-29-9	5.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00
Chrysene	218-01-9	2.28E+02	1.60E-03	3.88E-03	2.45E+05	2.48E-02	6.21E-06	
Cobalt	7440-48-4	5.89E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E+00
Copper	7440-50-8	6.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+00
Cumene	98-82-8	1.20E+02	5.00E+01	6.07E-01	1.38E+03	6.50E-02	7.10E-06	
Cyanide (free)	57-12-5	2.60E+01	1.00E+05	0.00E+00	0.00E+00	5.21E-01	2.28E-05	
DDD	72-54-8	3.20E+02	9.00E-02	1.66E-04	4.58E+04	1.69E-02	4.76E-06	
DDE	72-55-9	2.42E+02	6.50E-02	8.73E-04	8.64E+04	1.44E-02	5.87E-06	
DDT	50-29-3	3.54E+02	2.50E-02	3.32E-03	5.14E+00	1.37E-02	4.95E-06	
Diazinon	333-41-5	3.04E+02	4.00E+01	4.70E-06	3.26E-01	1.80E-02	4.90E-06	
Dibenzofuran	132-64-9	1.68E+02	2.86E+00	5.28E-03	8.13E+03	5.15E-02	7.04E-06	
Dibromochloromethane	124-48-1	2.08E+02	5.25E+03	3.25E-02	6.30E+01	1.96E-02	1.05E-05	
1,2-dibromoethane	106-93-4	1.88E+02	4.32E+03	2.93E-02	1.02E+02	2.17E-02	1.90E-05	
1,2-dichlorobenzene	95-50-1	1.47E+02	1.56E+02	7.79E-02	3.79E+02	6.90E-02	7.90E-06	
1,3-dichlorobenzene	541-73-1	1.47E+02	1.30E+02	1.37E-01	1.70E+02	6.42E-02	7.10E-06	
1,4-dichlorobenzene	106-46-7	1.47E+02	7.38E+01	9.96E-02	6.16E+02	6.90E-02	7.90E-06	
3,3-dichlorobenzene	91-94-1	2.53E+02	3.11E+00	8.65E-07	7.24E+02	1.94E-02	6.74E-06	
1,1-dichloroethane	75-34-3	9.90E+01	5.06E+03	2.30E-01	5.34E+01	7.42E-02	1.05E-05	
1,2-dichloroethane	107-06-2	9.90E+01	8.52E+03	4.01E-02	1.41E+01	1.04E-01	9.90E-06	
1,1-dichloroethene	75-35-4	9.69E+01	2.40E+03	1.06E+00	6.50E+01	9.00E-02	1.04E-03	
Total 1,2-dichloroethene	540-59-0	9.69E+01	6.30E+03	3.80E-01	4.57E+01	7.10E-02	1.20E-05	
2,4-dichlorophenol	120-83-2	1.63E+02	4.50E+03	1.30E-04	7.24E+01	3.46E-02	8.77E-06	
1,2-dichloropropane	78-87-5	1.13E+02	2.80E+03	1.17E-01	4.70E+01	7.82E-02	8.73E-06	
Dieldrin	60-57-1	3.81E+02	1.95E-01	1.11E-04	2.55E+04	1.25E-02	4.74E-06	
Diethylphthalate	84-66-2	2.22E+02	1.08E+03	1.85E-05	8.22E+01	2.56E-02	6.35E-06	
2,4-dimethylphenol	105-67-9	1.22E+02	7.87E+03	8.20E-05	1.17E+02	5.84E-02	8.69E-06	
Dimethylphthalate	131-11-3	1.94E+02	4.19E+03	2.40E-05	4.26E+01	5.68E-02	6.30E-06	
1,2 -dinitrobenzene	528-29-0	1.68E+02	1.52E+02	6.11E-02	2.80E+01	2.80E-01	7.90E-06	

TABLE F-1
CHEMICAL - PHYSICAL PROPERTIES FOR AN EXTENDED LIST OF CHEMICALS

CHEMICAL	CAS #	Molecular Weight	Water Solubility (mg/L)	Henry's Law Constant (L-water/L-air)	Koc (cm^3/g)	Diffusion Coefficient in air (cm^2/s)	Diffusion Coefficient in water (cm^2/s)	log Kd
1,3 -dinitrobenzene	99-65-0	1.68E+02	5.40E+02	4.57E-06	3.02E+01	2.80E-01	7.60E-05	
2,4 -dinitrophenol	51-28-5	1.84E+02	2.79E+03	1.82E-05	2.63E+01	2.73E-02	9.06E-06	
2,4 -dinitrotoluene	121-14-2	1.82E+02	2.70E+02	3.80E-06	5.13E+01	2.03E-01	7.06E-06	
2,6 -dinitrotoluene	606-20-2	1.82E+02	1.82E+02	3.60E-05	4.17E+01	3.27E-02	7.26E-06	
1,4 -dioxane	123-91-1	8.81E+01	9.00E+05	2.04E-04	5.30E-01	2.30E-01	1.00E-05	
Endosulfan	115-29-7	4.07E+02	5.10E-01	4.66E-04	2.04E+03	1.15E-02	4.55E-06	
Endrin	72-20-8	3.81E+02	2.50E-01	3.08E-04	1.08E+04	1.25E-02	4.74E-06	
Ethylbenzene	100-41-4	1.06E+02	1.69E+02	3.23E-01	6.76E+02	7.50E-02	7.80E-06	

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CHEMICAL	CAS #	Molecular Weight	Water Solubility (mg/L)	Henry's Law Constant (L-water/L-air)	Koc (cm^3/g)	Diffusion Coefficient in air (cm^2/s)	Diffusion Coefficient in water (cm^2/s)	log Kd
Ethylene Glycol	107-21-1	6.21E+01	1.00E+06	2.49E-06	1.25E-01	1.08E-01	1.22E-05	
Ethylene Glycol monobutyl e	111-76-2	1.18E+02	1.00E+06	2.16E-05	1.25E-01	6.51E-02	8.15E-06	
Ethyl ether	60-29-7	7.41E+01	6.10E+04	2.70E-02	7.59E+00	7.40E-02	9.30E-06	
Fluoranthene	206-44-0	2.02E+02	2.06E-01	6.60E-04	4.90E-04	3.02E-02	6.36E-06	
Fluorene	86-73-7	1.66E+02	1.98E+00	2.61E-03	7.30E+03	3.63E-02	7.88E-06	
Formaldehyde	50-00-0	3.00E+01	5.50E+05	1.38E-05	2.18E+00	1.80E-01	2.00E-05	
Heptachlor	76-44-8	3.73E+02	1.80E-01	4.47E-01	9.53E+03	1.12E-02	5.96E-06	
Heptachlor epoxide	1024-57-3	3.89E+02	2.00E-01	3.90E-04	8.32E+04	1.32E-02	4.23E-06	
Hexachlorobenzene	118-74-1	2.85E+02	6.20E+00	5.41E-02	2.82E+04	5.42E-02	5.91E-06	
Hexachlorobutadiene	87-68-3	2.61E+02	3.23E+00	3.34E-01	6.92E+03	5.61E-02	6.16E-06	
Hexachlorocyclopentadiene	77-47-4	2.74E+02	1.80E+00	1.11E+00	5.37E+04	1.61E-02	7.21E-06	
Hexane	110-54-3	8.62E+01	1.30E+01	4.66E+01	4.79E+02	2.00E-01	7.77E-06	
Methylene chloride	75-09-2	8.49E+01	1.30E+04	8.98E-02	1.17E+01	1.01E-01	1.17E-05	
Methyl Ethyl Ketone	78-93-3	7.21E+01	2.40E+05	1.94E-03	1.23E+00	8.08E-02	9.80E-06	
MTBE	1634-04-4	8.82E+01	4.80E+04	2.44E-02	1.41E+01	7.92E-02	9.41E-05	
n-Nitrosodipropylamine	621-64-7	1.30E+02	9.89E+03	9.23E-05	2.00E+01	5.45E-02	8.17E-06	
Pentachlorophenol	87-86-5	2.66E+02	1.95E+03	1.00E-06	4.07E+02	5.60E-02	6.10E-06	
Phenanthrene	85-01-8	1.78E+02	9.94E-01	5.40E-03	1.41E+04	3.33E-02	7.47E-06	
Phenol	108-95-2	9.41E+01	8.28E+04	1.63E-05	2.88E+01	8.20E-02	9.10E-06	
Pyrene	129-00-0	2.02E+02	1.35E-01	4.51E-04	6.46E+04	2.72E-02	7.24E-06	
n-Propylbenzene	103-65-1	1.20E+02	5.70E+01	4.82E-01	3.00E+03	6.50E-02	7.80E-06	
Selenium	7782-49-2	7.90E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-01
Silver	7440-22-4	1.08E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.00E+00
Strychnine	57-24-9	3.34E+02	1.43E+02	6.65E-12	7.94E+01	8.00E-02	8.00E-06	
Styrene	100-42-5	1.04E+02	3.10E+02	1.13E-01	9.12E+02	7.10E-02	8.00E-06	
Tetrachloroethene	127-18-4	1.66E+02	2.00E+02	7.54E-01	7.90E+01	7.20E-02	8.20E-06	
Toluene	108-88-3	9.21E+01	5.26E+02	2.72E-01	1.35E+02	8.70E-02	8.60E-06	
Toxaphene	8001-35-2	4.14E+02	7.40E-01	2.46E-04	9.58E+04	1.16E-02	4.34E-06	
1,2,4 -tribromobenzene	615-54-3	3.15E+02	1.00E+01	1.29E-02	5.00E+02	1.10E-02	5.00E-05	
1,1,1 -trichloroethane	71-55-6	1.33E+02	1.33E+03	7.05E-01	1.35E+02	7.80E-02	8.80E-06	
1,1,2 -trichloroethane	79-00-5	1.33E+02	4.42E+03	3.74E-02	5.01E+01	7.80E-02	8.80E-06	
Trichloroethene	79-01-6	1.31E+02	1.10E+03	4.22E-01	9.33E+01	7.90E-02	9.10E-06	
Trichlorofluoromethane	75-69-4	1.37E+02	1.10E+03	4.03E+00	1.59E+02	8.70E-02	9.70E-06	
2,4,5 -Trichlorophenol	95-95-4	1.97E+02	1.20E+03	1.78E-04	2.95E+02	2.91E-02	7.03E-06	
2,4,6 -trichlorophenol	88-06-2	1.97E+02	8.00E+02	3.19E-04	1.32E+02	3.18E-02	6.25E-06	
1,1,2 -trichloropropane	598-77-6	1.47E+02	4.44E+01	1.58E-02	1.74E+02	7.10E-02	7.90E-06	
1,2,3 -trichloropropane	96-18-4	1.47E+02	1.90E+03	1.58E-02	3.89E+02	7.10E-02	7.90E-06	
1,2,4 -trimethylbenzene	95-63-6	1.20E+02	5.68E+01	1.84E-01	5.89E+02	6.22E-02	7.28E-06	
1,3,5 -trimethylbenzene	108-67-8	1.20E+02	5.15E+01	2.72E-01	5.89E+02	6.21E-02	7.23E-06	
1,3,5 -trinitrobenzene	99-35-4	2.13E+02	3.53E+02	2.87E-06	1.41E+01	8.00E-02	8.00E-06	
2,4,6 -trinitrotoluene	118-96-7	2.27E+02	1.30E+02	1.90E-05	3.02E+02	5.41E-02	6.57E-06	
Uranium (soluble salts) [IRIS]	7440-61-1	2.38E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E+00
Uranium (soluble salts) [Prov	7440-61-1	2.38E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E+00
Vanadium	7440-62-2	5.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00
Vanadium Pentoxide	1314-62-1	1.82E+02	8.00E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Vinyl Acetate	108-05-4	8.61E+01	2.00E+04	2.29E-02	5.24E+00	8.50E-02	9.20E-06	
Vinyl Chloride (lifetime)	75-01-4	6.25E+01	2.76E+03	1.11E+00	1.86E+01	1.06E-01	1.23E-06	
Vinyl Chloride (adult)	75-01-4	6.25E+01	2.76E+03	1.11E+00	1.86E+01	1.06E-01	1.23E-06	
m-Xylene	108-38-3	1.06E+02	1.60E+02	3.05E-01	1.95E+02	7.00E-02	7.80E-06	
o-Xylene	95-47-6	1.06E+02	1.78E+02	7.36E-04	2.41E+02	8.70E-02	1.00E-05	
p-Xylene	106-42-3	1.06E+02	1.85E+02	3.18E-01	3.09E+02	7.69E-02	8.44E-06	
Xylenes	1330-20-7	1.06E+02	1.98E+02	2.93E-01	6.92E+02	7.40E-02	8.50E-06	
Zinc	7440-66-6	6.54E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E+00

TABLE F-2
TIER 1 RBSLs FOR AN EXTENDED LIST OF CHEMICALS

CHEMICAL	CAS #	CSFo [1/(mg-kg/d)]	CSFi [1/(mg-kg/d)]	RfDo [mg-kg/d]	RfDi [mg-kg/d]	Soil Residential [mg/kg]	Soil Industrial [mg/kg]	Groundwater Residential [mg/L]	Groundwater Industrial [mg/L]
Acenaphthene	83-32-9	NA	NA	6.00E-02	NA	1.96E+02 *	1.96E+02 *	N/A	N/A
Acetone	67-64-1	NA	NA	1.00E-01	NA	6.59E+03	4.82E+04	N/A	N/A
Acrolein	107-02-8	NA	NA	2.00E-02	5.70E-06	8.65E-02	6.96E-01	8.72E-01	7.03E+00
Anthracene	120-12-7	NA	NA	3.00E-01	NA	8.08E+00 *	8.08E+00 *	N/A	N/A
Arsenic	7440-38-2	1.50E+00	1.50E+00	3.00E-04	NA	1.01E-01	4.03E-01	N/A	N/A
Benzene	71-43-2	5.50E-02	2.90E-02	3.00E-03	1.70E-03	1.57E-01	4.29E-01	2.54E-01	7.99E-01
Benzo(a)pyrene	50-32-8	7.30E+00	6.10E+00	NA	NA	1.05E-01	3.13E-01	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	205-99-2	7.30E-01	6.10E-01	NA	NA	1.05E+00	3.13E+00	1.50E-02 #	1.50E-02 #
Benzo(k)fluoranthene	207-08-9	7.30E-02	6.10E-02	NA	NA	8.16E+00 *	8.16E+00 *	8.00E-04 #	8.00E-04 #
Benzo(a)anthracene	56-55-3	7.30E-01	6.10E-01	NA	NA	1.05E+00	3.13E+00	9.40E-03 #	9.40E-03 #
Benzo(g,h,I)perylene	191-24-2	NA	NA	3.00E-02	NA	4.17E+00 *	4.17E+00 *	N/A	N/A
Bromodichloromethane	75-27-4	6.20E-02	NA	2.00E-02	NA	1.24E+01	3.69E+01	N/A	N/A
Bromoform	75-25-2	7.90E-03	3.90E-03	2.00E-02	NA	8.86E+01	2.55E+02	8.66E+01	2.72E+02
Bromomethane	74-83-9	NA	NA	1.40E-03	1.40E-03	1.31E-01	1.05E+00	7.26E-01	5.85E+00
Butylbenzylphthalate	85-68-7	NA	NA	2.00E-01	NA	3.70E+02 *	3.70E+02 *	N/A	N/A
sec-Butylbenzene	135-98-8	NA	NA	4.00E-02	NA	5.15E+02 *	5.15E+02 *	N/A	N/A
tert-Butylbenzene	98-06-6	NA	NA	4.00E-02	NA	5.17E+02 *	5.17E+02 *	N/A	N/A
Cadmium - water	7440-43-9	NA	6.30E+00	5.00E-04	5.7E-05	3.00E-01	1.31E+00	N/A	N/A
Cadmium - food	7440-43-9	NA	6.30E+00	1.00E-03	5.7E-05	3.00E-01	1.31E+00	N/A	N/A
Carbon disulfide	75-15-0	NA	NA	1.00E-01	2.00E-01	1.88E+01	1.51E+02	3.55E+01	2.86E+02
Carbon tetrachloride	56-23-5	1.30E-01	5.30E-02	7.00E-04	5.71E-04	4.05E-02	1.27E-01	3.17E-02	9.98E-02
Chlordane	57-74-9	3.5E-01	3.5E-01	5.00E-04	2.00E-04	2.19E+00	6.50E+00	5.60E-02 #	5.60E-02 #
4-Chloroaniline	106-47-8	NA	NA	4.00E-03	NA	2.63E+02	1.93E+03	N/A	N/A
Chlorobenzene	108-90-7	NA	NA	2.00E-02	1.7E-02	6.16E+01	4.97E+02	3.28E+01	2.64E+02
Chloroethane	75-00-3	2.90E-03	NA	4.00E-01	2.90E+00	2.63E+01	2.12E+02	2.16E+02	1.74E+03
Chloroform	67-66-3	6.10E-03	8.10E-02	1.00E-02	8.6E-05	6.07E-02	1.96E-01	1.19E-01	3.86E-01
Chloromethane	74-87-3	1.30E-02	3.5E-03	NA	8.6E-02	8.58E-02	2.70E-01	2.61E-01	8.20E-01
Beta-chloronaphthalene	91-58-7	NA	NA	8.00E-02	NA	5.74E+02 *	5.74E+02 *	N/A	N/A
2-Chlorophenol	95-57-8	NA	NA	5.00E-03	NA	3.29E+02	2.41E+03	N/A	N/A
Chromium III	16065-83-1	NA	NA	1.50E+00	NA	9.88E+04	7.23E+05	N/A	N/A
Chromium IV	18540-29-9	NA	4.10E+01	3.00E-03	3.00E-05	4.61E-02	2.01E-01	N/A	N/A
Chrysene	218-01-9	7.30E-03	6.10E-03	NA	NA	3.92E+00 *	3.92E+00 *	1.60E-03 #	1.60E-03 #
Cobalt	7440-48-4	NA	NA	6.00E-02	NA	3.95E+03	2.89E+04	N/A	N/A
Copper	7440-50-8	NA	NA	4.00E-02	NA	2.63E+03	1.93E+04	N/A	N/A
Cumene	98-82-8	NA	NA	1.00E-01	1.10E-01	6.67E+02	6.97E+02 *	5.00E+01 #	5.00E+01 #
Cyanide (free)	57-12-5	NA	NA	2.00E-02	NA	1.32E+03	9.64E+03	N/A	N/A
DDD	72-54-8	2.40E-01	NA	NA	NA	3.20E+00	9.54E+00	N/A	N/A
DDE	72-55-9	3.40E-01	NA	NA	NA	2.26E+00	6.73E+00	N/A	N/A
DDT	50-29-3	3.40E-01	3.40E-01	5.00E-04	NA	4.07E-03 *	4.07E-03 *	2.50E-02 #	2.50E-02 #
Diazinon	333-41-5	NA	NA	9.00E-04	NA	4.57E+00 *	4.57E+00 *	N/A	N/A
Dibenzofuran	132-64-9	NA	NA	4.00E-03	NA	2.33E+02 *	2.33E+02 *	N/A	N/A
Dibromochloromethane	124-48-1	8.40E-02	NA	2.00E-02	NA	9.15E+00	2.73E+01	N/A	N/A
1,2-dibromoethane	106-93-4	8.50E+01	7.60E-01	NA	5.70E-05	9.02E-03	2.69E-02	2.31E-01	7.27E-01
1,2-dichlorobenzene	95-50-1	NA	NA	9.00E-02	NA	6.09E+02 *	6.09E+02 *	N/A	N/A
1,3-dichlorobenzene	541-73-1	NA	NA	9.00E-04	NA	5.93E+01	2.36E+02 *	N/A	N/A
1,4-dichlorobenzene	106-46-7	2.40E-02	2.2E-02	3.00E-02	2.29E-01	5.06E+00	1.59E+01	9.99E-01	3.14E+00
3,3-dichlorobenzene	91-94-1	4.50E-01	NA	NA	NA	1.71E+00	5.09E+00	N/A	N/A
1,1-dichloroethane	75-34-3	NA	NA	1.00E-01	1.40E-01	9.22E+01	7.43E+02	1.77E+02	1.43E+03
1,2-dichloroethane	107-06-2	9.10E-02	9.10E-02	3.00E-02	1.40E-03	8.07E-02	2.54E-01	3.85E-01	1.21E+00
1,1-dichloroethene	75-35-4	6.00E-01	1.75E-01	9.00E-03	NA	5.46E-03	1.72E-02	7.88E-03	2.48E-02
Total 1,2-dichloroethene	540-59-0	NA	NA	9.00E-03	NA	5.93E+02	3.71E+03 *	N/A	N/A
2,4-dichlorophenol	120-83-2	NA	NA	3.00E-03	NA	1.98E+02	1.45E+03	N/A	N/A
1,2-dichloropropane	78-87-5	6.80E-02	NA	NA	1.14E-03	1.25E+00	1.00E+01	2.65E+00	2.13E+01
Dieldrin	60-57-1	1.60E+01	1.60E+01	5.00E-05	NA	4.78E-02	1.42E-01	1.84E-01	1.95E-01 #
Diethylphthalate	84-66-2	NA	NA	8.00E-01	NA	1.01E+03 *	1.01E+03 *	N/A	N/A
2,4-dimethylphenol	105-67-9	NA	NA	2.00E-02	NA	1.32E+03	9.64E+03	N/A	N/A
Dimethylphthalate	131-11-3	NA	NA	1.00E+01	NA	2.25E+03 *	2.25E+03 *	N/A	N/A

TABLE F-2
TIER 1 RBSLs FOR AN EXTENDED LIST OF CHEMICALS

CHEMICAL	CAS #	CSFo [1/(mg-kg/d)]	CSFi [1/(mg-kg/d)]	RfDo [mg-kg/d]	RfDi [mg-kg/d]	Soil		Groundwater	
						Residential [mg/kg]	Industrial [mg/kg]	Residential [mg/L]	Industrial [mg/L]
1,2 -dinitrobenzene	528-29-0	NA	NA	4.00E-04	NA	2.63E+01	5.98E+01 *	N/A	N/A
1,3 -dinitrobenzene	99-65-0	NA	NA	1.00E-04	NA	6.59E+00	4.82E+01	N/A	N/A
2,4 -dinitrophenol	51-28-5	NA	NA	2.00E-03	NA	1.32E+02	9.64E+02	N/A	N/A
2,4 -dinitrotoluene	121-14-2	NA	NA	2.00E-03	NA	1.32E+02	1.69E+02 *	N/A	N/A
2,6 -dinitrotoluene	606-20-2	NA	NA	1.00E-03	NA	6.59E+01	9.61E+01 *	N/A	N/A
1,4 -dioxane	123-91-1	1.10E-02	NA	NA	NA	6.99E+01	2.08E+02	N/A	N/A
Endosulfan	115-29-7	NA	NA	6.00E-03	NA	1.05E+01 *	1.05E+01 *	N/A	N/A
Endrin	72-20-8	NA	NA	3.00E-04	NA	1.98E+01	2.70E+01 *	N/A	N/A
Ethylbenzene	100-41-4	NA	NA	1.00E-01	2.90E-01	1.16E+03 *	1.16E+03 *	1.69E+02 #	1.69E+02 #

TABLE F-2
TIER 1 RBSLs FOR AN EXTENDED LIST OF CHEMICALS

CHEMICAL	CAS #	CSFo [1/(mg-kg/d)]	CSFi [1/(mg-kg/d)]	RfDo [mg-kg/d]	RfDi [mg-kg/d]	Soil Residential [mg/kg]	Soil Industrial [mg/kg]	Groundwater Residential [mg/L]	Groundwater Industrial [mg/L]
Ethylene Glycol	107-21-1	NA	NA	2.00E+00	NA	1.12E+05 *	1.12E+05 *	N/A	N/A
Ethylene Glycol monobutyl ether	111-76-2	NA	NA	5.00E-01	3.70E+00	3.16E+04	1.12E+05 *	8.96E+05	1.00E+06 #
Ethyl ether	60-29-7	NA	NA	2.00E-01	NA	1.15E+04 *	1.15E+04 *	N/A	N/A
Fluoranthene	206-44-0	NA	NA	4.00E-02	NA	1.01E+02 *	1.01E+02 *	N/A	N/A
Fluorene	86-73-7	NA	NA	4.00E-02	NA	1.45E+02 *	1.45E+02 *	N/A	N/A
Formaldehyde	50-00-0	NA	4.50E-02	2.00E-01	NA	1.79E+00	5.63E+00	1.58E+01	4.97E+01
Heptachlor	76-44-8	4.50E+00	4.50E+00	5.00E-04	NA	1.58E-01	4.57E-01	6.69E-03	2.11E-02
Heptachlor epoxide	1024-57-3	9.10E+00	9.10E+00	1.30E-05	NA	8.42E-02	2.51E-01	2.00E-01 #	2.00E-01 #
Hexachlorobenzene	118-74-1	1.60E+00	1.60E+00	8.00E-04	NA	4.63E-01	1.36E+00	3.14E-02	9.87E-02
Hexachlorobutadiene	87-68-3	7.80E-02	7.80E-02	2.00E-04	NA	5.83E+00	1.83E+01	1.09E-01	3.42E-01
Hexachlorocyclopentadiene	77-47-4	NA	NA	7.00E-03	2.00E-05	1.03E+01	8.29E+01	2.46E-02	1.98E-01
Hexane	110-54-3	NA	NA	6.00E-02	5.71E-02	7.88E-01	6.35E+00	1.42E-01	1.15E+00
Methylene chloride	75-09-2	7.50E-03	1.65E-03	6.00E-02	8.60E-01	1.90E+00	5.96E+00	1.00E+01	3.16E+01
Methyl Ethyl Ketone	78-93-3	NA	NA	6.00E-01	2.86E-01	2.38E+03	1.92E+04	2.26E+04	1.82E+05
MTBE	1634-04-4	NA	NA	8.57E-01	8.57E-01	1.44E+03	1.16E+04	6.80E+03	4.80E+04 #
n-Nitrosodipropylamine	621-64-7	7.00E+00	NA	NA	NA	1.10E-01	3.27E-01	N/A	N/A
Pentachlorophenol	87-86-5	1.20E-01	NA	3.00E-02	NA	6.40E+00	1.91E+01	N/A	N/A
Phenanthrene	85-01-8	NA	NA	4.00E-02	NA	1.40E+02 *	1.40E+02 *	N/A	N/A
Phenol	108-95-2	NA	NA	6.00E-01	NA	3.30E+04 *	3.30E+04 *	N/A	N/A
Pyrene	129-00-0	NA	NA	3.00E-02	NA	8.72E+01 *	8.72E+01 *	N/A	N/A
n-Propylbenzene	103-65-1	NA	NA	4.00E-02	NA	1.72E+03 *	1.72E+03 *	N/A	N/A
Selenium	7782-49-2	NA	NA	5.00E-03	NA	3.29E+02	2.41E+03	N/A	N/A
Silver	7440-22-4	NA	NA	5.00E-03	NA	3.29E+02	2.41E+03	N/A	N/A
Strychnine	57-24-9	NA	NA	3.00E-04	NA	1.98E+01	1.29E+02 *	N/A	N/A
Styrene	100-42-5	NA	NA	2.00E-01	2.86E-01	2.86E+03 *	2.86E+03 *	3.10E+02 #	3.10E+02 #
Tetrachloroethene	127-18-4	5.20E-02	2.00E-03	1.00E-02	1.4E-01	1.07E+00	3.36E+00	1.50E+00	4.70E+00
Toluene	108-85-3	NA	NA	2.00E-01	1.1E-01	1.25E+02	7.76E+02 *	1.08E+02	5.26E+02 #
Toxaphene	8001-35-2	1.10E+00	1.10E+00	NA	NA	6.97E-01	2.07E+00	7.40E-01 #	7.40E-01 #
1,2,4 -tribromobenzene	615-54-3	NA	NA	5.00E-03	NA	5.11E+01 *	5.11E+01 *	N/A	N/A
1,1,1 -trichloroethane	71-55-6	NA	NA	2.80E-01	6.30E-01	2.95E+02	2.00E+03 *	2.59E+02	1.33E+03 #
1,1,2 -trichloroethane	79-00-5	5.70E-02	5.60E-02	4.00E-03	NA	4.50E-01	1.41E+00	8.83E-01	2.78E+00
Trichloroethene	79-01-6	1.10E-02	6.00E-03	6.00E-03	NA	6.56E-01	2.06E+00	7.99E-01	2.51E+00
Trichlorofluoromethane	75-69-4	NA	NA	3.00E-01	2.00E-01	1.89E+01	1.52E+02	1.32E+01	1.06E+02
2,4,5 -Trichlorophenol	95-95-4	NA	NA	1.00E-01	NA	3.67E+03 *	3.67E+03 *	N/A	N/A
2,4,6 -trichlorophenol	88-06-2	1.10E-02	1.00E-02	NA	NA	6.51E+01	1.89E+02	1.98E+02	6.24E+02
1,1,2 -trichloropropane	598-77-6	NA	NA	5.00E-03	NA	8.21E+01 *	8.21E+01 *	N/A	N/A
1,2,3 -trichloropropane	96-18-4	2.00E+00	NA	6.00E-03	1.4E-03	3.84E-01	1.14E+00	2.38E+01	1.92E+02
1,2,4 -trimethylbenzene	95-63-6	NA	NA	5.00E-02	1.70E-03	1.52E+01	1.23E+02	3.21E+00	2.59E+01
1,3,5 -trimethylbenzene	108-67-8	NA	NA	5.00E-02	1.70E-03	1.04E+01	8.35E+01	2.21E+00	1.78E+01
1,3,5 -trinitrobenzene	99-35-4	NA	NA	3.00E-02	NA	8.91E+01 *	8.91E+01 *	N/A	N/A
2,4,6 -trinitrotoluene	118-96-7	3.00E-02	NA	5.00E-04	NA	2.56E+01	7.63E+01	N/A	N/A
Uranium (soluble salts) [IRIS]	7440-61-1	NA	NA	3.00E-03	NA	1.98E+02	1.45E+03	N/A	N/A
Uranium (soluble salts) [Provisional	7440-61-1	NA	NA	2.00E-04	NA	1.32E+01	9.64E+01	N/A	N/A
Vanadium	7440-62-2	NA	NA	7.00E-03	NA	4.61E+02	3.38E+03	N/A	N/A
Vanadium Pentoxide	1314-62-1	NA	NA	9.00E-03	NA	5.93E+02	8.89E+02 *	N/A	N/A
Vinyl Acetate	108-05-4	NA	NA	1.00E+00	5.71E-02	7.93E+01	6.39E+02	5.76E+02	4.64E+03
Vinyl Chloride (lifetime)	75-01-4	1.50E+00	3.00E-02	3.00E-03	2.8E-02	1.25E-02	3.94E-02	4.71E-02	1.48E-01
Vinyl Chloride (adult)	75-01-4	7.50E-01	1.5E-02	3.00E-03	2.8E-02	2.51E-02	7.88E-02	9.43E-02	2.97E-01
m-Xylene	1330-20-7	NA	NA	2.00E+00	NA	3.32E+02 *	3.32E+02 *	N/A	N/A
o-Xylene	108-38-3	NA	NA	2.00E+00	NA	4.49E+02 *	4.49E+02 *	N/A	N/A
p-Xylene	95-47-6	NA	NA	2.00E+00	NA	5.96E+02 *	5.96E+02 *	N/A	N/A
Xylenes	106-42-3	NA	NA	2.00E+00	8.60E-02	5.04E+02 *	1.40E+03 *	9.18E+01	1.98E+02 #
Zinc	7440-66-6	NA	NA	3.00E-01	NA	1.98E+04	1.45E+05	N/A	N/A

*: Calculated RBSLs exceeded saturated soil concentration and hence saturated soil concentrations are listed RBSLs.

#: Calculated RBSLs exceeded pure component water solubility and hence water solubilities are listed as RBSLs.

RAFd for all chemicals other than BTEX was 0.1