K-3. DOSE CALCULATIONS AND HAZARD QUOTIENTS FOR FUNCTIONAL GROUPS/SENSITIVE SPECIES

This appendix gives the results of the WAG Ecological Risk Assessment (ERA). Each table represents one site (e.g., CFA-02) and is composed of three parts: soil concentrations, results of the dose calculations, and results of the hazard quotient calculations. NA means no toxicity data was available for that contaminant and functional group. NA cells were ignored (i.e., treated as zeros) when calculating the total HQ.

Concentrations	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
Concentration in surface soil	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Concentration in sub-surface soil	8.90E-01	2.10E-01	1.60E-01	2.00E-01
Concentration used in ERA	8.90E-01	2.10E-01	1.60E-01	2.00E-01
Water concentration (mg/L)	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Size of Site	**4.30E+00**			
Dose (mg/kg-d)				
Functional groups	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
Amphibians (A232)	7.22E-03	1.70E-03	1.30E-03	1.62E-03
Avian herbivores (AV121)	1.11E-03	2.61E-04	1.50E-04	2.49E-04
Avian herbivores (AV122)	3.22E-02	7.59E-03	5.51E-03	7.23E-03
Avian insectivores (AV210)	1.76E-03	4.15E-04	3.20E-04	3.95E-04
Black tern	4.31E-03	1.02E-03	7.75E-04	9.68E-04
Avian insectivores (AV210A)	4.68E-03	1.10E-03	8.48E-04	1.05E-03
Avian insectivores (AV221)	5.27E-03	1.24E-03	9.54E-04	1.18E-03
Avian insectivores (AV222)	2.34E-02	5.52E-03	4.22E-03	5.26E-03
Avian insectivores (AV222A)	1.52E-02	3.59E-03	2.74E-03	3.42E-03
Avian carnivores (AV310)	4.15E-05	9.79E-06	7.54E-06	9.32E-06
Northern goshawk	5.24E-06	1.24E-06	9.53E-07	1.18E-06
Peregrine falcon	3.74E-05	8.82E-06	6.80E-06	8.40E-06
Avian carnivores (AV322)	1.52E-03	3.58E-04	2.76E-04	3.41E-04
Bald eagle	1.33E-06	3.15E-07	2.43E-07	3.00E-07
Ferruginous hawk	5.10E-06	1.20E-06	9.27E-07	1.15E-06
Loggerhead shrike	1.94E-03	4.59E-04	3.54E-04	4.37E-04
Avian carnivores (AV322A)	3.24E-04	7.65E-05	5.87E-05	7.28E-05
Burrowing Owl	3.24E-04	7.65E-05	5.87E-05	7.28E-05
Avian omnivores (AV422)	4.72E-03	1.11E-03	8.36E-04	1.06E-03
Mammalian herbivores (M121)	1.51E-04	3.55E-05	2.25E-05	3.38E-05
Mammalian herbivores (M122)	1.99E-02	4.69E-03	3.32E-03	4.46E-03
Mammalian herbivores (M122A)	2.14E-02	5.04E-03	3.62E-03	4.80E-03
Pygmy rabbit	3.19E-03	7.52E-04	4.77E-04	7.16E-04
Mammalian herbivores (M123)	1.33E-02	3.14E-03	2.26E-03	2.99E-03
Mammalian insectivores (M210)	1.06E-03	2.50E-04	1.93E-04	2.38E-04
Mammalian insectivores (M210A)	5.59E-03	1.32E-03	1.02E-03	1.26E-03
Townsend's western big-eared bat	2.00E-03	4.71E-04	3.67E-04	4.49E-04
Small-footed myotis	2.84E-03	6.71E-04	5.23E-04	6.39E-04
Long-eared myotis	4.82E-03	1.14E-03	8.77E-04	1.08E-03
Mammalian insectivores (M222)	6.02E-03	1.42E-03	1.09E-03	1.35E-03
Mammalian carnivore (M322)	2.13E-03	5.02E-04	3.84E-04	4.78E-04
Mammalian omnivores (M422)	1.53E-02	3.61E-03	2.74E-03	3.44E-03
Mammalian omnivores (M422A)	1.26E-03	2.96E-04	2.25E-04	2.82E-04
Reptilian insectivores (R222)	1.84E-04	4.34E-05	3.34E-05	4.13E-05
Sagebrush lizard	1.84E-04	4.34E-05	3.34E-05	4.13E-05
Reptilian carnivores (R322)	1.95E-02	4.61E-03	3.53E-03	4.39E-03
Plants	8.90E-01	2.10E-01	1.60E-01	2.00E-01

Hazard Quotient (unitless)

Functional groups	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
Amphibians (A232)	NA	NA	NA	NA
Avian herbivores (AV121)	NA	NA	NA	NA
Avian herbivores (AV122)	NA	NA	NA	NA
Avian insectivores (AV210)	NA	NA	NA	NA
Black tern	NA	NA	NA	NA
Avian insectivores (AV210A)	NA	NA	NA	NA
Avian insectivores (AV221)	NA	NA	NA	NA
Avian insectivores (AV222)	NA	NA	NA	NA
Avian insectivores (AV222A)	NA	NA	NA	NA
Avian carnivores (AV310)	NA	NA	NA	NA
Northern goshawk	NA	NA	NA	NA
Peregrine falcon	NA	NA	NA	NA
Avian carnivores (AV322)	NA	NA	NA	NA
Bald eagle	NA	NA	NA	NA
Ferruginous hawk	NA	NA	NA	NA
Loggerhead shrike	NA	NA	NA	NA
Avian carnivores (AV322A)	NA	NA	NA	NA
Burrowing Owl	NA	NA	NA	NA
Avian omnivores (AV422)	NA	NA	NA	NA
Mammalian herbivores (M121)	2.E-02	2.E-03	1.E-03	2.E-03
Mammalian herbivores (M122)	2.E+00	2.E-01	2.E-01	2.E-01
Mammalian herbivores (M122A)	2.E+00	3.E-01	2.E-01	2.E-01
Pygmy rabbit	3.E-01	4.E-02	2.E-02	4.E-02
Mammalian herbivores (M123)	1.E+00	2.E-01	1.E-01	1.E-01
Mammalian insectivores (M210)	1.E-01	1.E-02	1.E-02	1.E-02
Mammalian insectivores (M210A)	6.E-01	7.E-02	5.E-02	6.E-02
Townsend's western big-eared bat	2.E-01	2.E-02	2.E-02	2.E-02
Small-footed myotis	3.E-01	3.E-02	3.E-02	3.E-02
Long-eared myotis	5.E-01	6.E-02	4.E-02	5.E-02
Mammalian insectivores (M222)	6.E-01	7.E-02	5.E-02	7.E-02
Mammalian carnivore (M322)	2.E-01	3.E-02	2.E-02	2.E-02
Mammalian omnivores (M422)	2.E+00	1.E-01	9.E-02	1.E-01
Mammalian omnivores (M422A)	1.E-01	1.E-02	7.E-03	9.E-03
Reptilian insectivores (R222)	NA	NA	NA	NA
Sagebrush lizard	NA	NA	NA	NA
Reptilian carnivores (R322)	NA	NA	NA	NA
Plants	NA	NA	NA	NA
Maximum hazard quotient	2.E+00	3.E-01	2.E-01	2.E-01

Chromium III	Chrysene	Copper	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Lead	Mercury
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E+01	8.00E-02
5.30E+01	4.50E+02	7.34E+01	3.80E-01	8.30E-02	7.20E+01	8.00E-02
5.30E+01	4.50E+02	7.34E+01	3.80E-01	8.30E-02	9.70E+01	8.00E-02
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Chromium III	Chrysene	Copper	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Lead	Mercury
4.30E-01	3.65E+00	5.95E-01	3.08E-03	6.73E-04	7.75E-01	6.49E-04
5.20E-02	8.05E-01	1.68E+00	4.72E-04	7.82E-05	2.84E-01	4.06E-03
1.84E+00	1.77E+01	1.16E+01	1.37E-02	2.86E-03	3.70E+00	2.53E-02
4.04E-01	8.82E-01	7.10E+00	7.50E-04	1.66E-04	2.90E+00	3.19E-03
3.02E-01	2.18E+00	1.42E+00	1.84E-03	4.02E-04	7.70E-01	8.51E-04
8.09E-01	2.35E+00	1.27E+01	2.00E-03	4.40E-04	5.39E+00	5.79E-03
9.10E-01	2.65E+00	1.43E+01	2.25E-03	4.95E-04	5.92E+00	6.51E-03
2.20E+00	1.18E+01	2.07E+01	9.99E-03	2.19E-03	9.32E+00	1.03E-02
1.43E+00	7.68E+00	1.34E+01	6.50E-03	1.42E-03	6.49E+00	6.68E-03
2.61E-02	2.08E-02	3.62E-02	1.77E-05	3.91E-06	1.34E-01	1.29E-04
3.30E-03	2.63E-03	4.57E-03	2.24E-06	4.94E-07	1.69E-02	1.63E-05
2.36E-02	1.87E-02	3.26E-02	1.60E-05	3.52E-06	1.20E-01	1.16E-04
9.58E-01	7.62E-01	1.33E+00	6.49E-04	1.43E-04	4.89E+00	4.72E-03
8.42E-04	6.70E-04	1.17E-03	5.70E-07	1.26E-07	4.30E-03	4.15E-06
3.21E-03	2.56E-03	4.45E-03	2.18E-06	4.81E-07	1.64E-02	1.59E-05
1.23E+00	9.76E-01	1.70E+00	8.30E-04	1.83E-04	6.26E+00	6.05E-03
1.42E-01	1.63E-01	1.97E-01	1.38E-04	3.05E-05	7.11E-01	6.80E-04
1.42E-01	1.63E-01	1.97E-01	1.38E-04	3.05E-05	7.11E-01	6.80E-04
6.41E-01	2.45E+00	3.35E+00	2.01E-03	4.34E-04	2.44E+00	3.44E-03
7.67E-03	9.90E-02	1.60E-01	6.43E-05	1.17E-05	3.29E-02	3.82E-04
1.11E+00	1.13E+01	9.63E+00	8.48E-03	1.73E-03	2.59E+00	2.17E-02
1.21E+00	1.19E+01	8.91E+00	9.13E-03	1.88E-03	3.13E+00	1.98E-02
1.63E-01	2.10E+00	3.39E+00	1.36E-03	2.48E-04	6.97E-01	8.09E-03
7.54E-01	7.42E+00	5.55E+00	5.68E-03	1.17E-03	1.95E+00	1.23E-02
2.44E-01	5.32E-01	4.29E+00	4.53E-04	1.00E-04	1.75E+00	1.93E-03
1.29E+00	2.81E+00	2.26E+01	2.39E-03	5.28E-04	9.38E+00	1.02E-02
7.93E-01	9.94E-01	1.58E+01	8.52E-04	1.90E-04	6.42E+00	7.00E-03
1.13E+00	1.42E+00	2.25E+01	1.21E-03	2.71E-04	9.14E+00	9.97E-03
1.11E+00	2.42E+00	1.95E+01	2.06E-03	4.55E-04	8.09E+00	8.75E-03
1.21E+00	3.02E+00	2.03E+01	2.57E-03	5.67E-04	8.52E+00	9.19E-03
4.28E-01	1.07E+00	5.93E-01	9.09E-04	1.99E-04	1.89E+00	1.79E-03
2.44E+00	7.80E+00	1.24E+01	6.53E-03	1.42E-03	1.01E+01	1.07E-02
2.00E-01	6.41E-01	1.02E+00	5.36E-04	1.17E-04	8.34E-01	8.84E-04
3.71E-02	9.24E-02	6.22E-01	7.85E-05	1.73E-05	2.60E-01	2.81E-04
3.71E-02	9.24E-02	6.22E-01	7.85E-05	1.73E-05	2.60E-01	2.81E-04
5.73E+00	9.84E+00	7.93E+00	8.34E-03	1.83E-03	2.72E+01	2.59E-02
5.30E+01	4.50E+02	7.34E+01	3.80E-01	8.30E-02	9.70E+01	8.00E-02

Chromium III	Chrysene	Copper	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Lead	Mercury
NA	NA	NA	NA	NA	NA	NA
4.E-02	NA	4.E-01	NA	NA	9.E+00	1.E+00
1.E+00	NA	3.E+00	NA	NA	1.E+02	6.E+00
3.E-01	NA	2.E+00	NA	NA	7.E+01	2.E-02
2.E-01	NA	4.E-01	NA	NA	3.E+01	1.E-01
6.E-01	NA	3.E+00	NA	NA	7.E+01	4.E-02
7.E-01	NA	4.E+00	NA	NA	1.E+02	4.E-02
2.E+00	NA	5.E+00	NA	NA	2.E+02	6.E-02
1.E+00	NA	3.E+00	NA	NA	2.E+02	4.E-02
2.E-02	NA	9.E-03	NA	NA	4.E+00	8.E-04
2.E-03	NA	1.E-03	NA	NA	4.E-01	1.E-04
2.E-02	NA	8.E-03	NA	NA	3.E+00	7.E-04
7.E-01	NA	3.E-01	NA	NA	2.E+02	3.E-02
6.E-04	NA	3.E-04	NA	NA	1.E-01	3.E-05
2.E-03	NA	1.E-03	NA	NA	5.E-01	1.E-04
9.E-01	NA	4.E-01	NA	NA	2.E+02	4.E-02
1.E-01	NA	5.E-02	NA	NA	2.E+01	4.E-03
1.E-01	NA	5.E-02	NA	NA	2.E+01	4.E-03
3.E-01	NA	6.E-01	NA	NA	8.E+01	1.E-02
3.E-05	1.E+00	2.E-01	3.E-03	6.E-04	1.E-02	4.E-02
4.E-03	2.E+02	1.E+01	4.E-01	9.E-02	1.E+00	2.E+00
5.E-03	2.E+02	1.E+01	5.E-01	9.E-02	1.E+00	2.E+00
7.E-04	3.E+01	5.E+00	7.E-02	1.E-02	3.E-01	9.E-01
3.E-03	1.E+02	9.E+00	3.E-01	6.E-02	7.E-01	1.E+00
1.E-03	8.E+00	7.E+00	2.E-02	5.E-03	6.E-01	2.E-01
5.E-03	4.E+01	3.E+01	1.E-01	3.E-02	3.E+00	1.E+00
3.E-03	1.E+01	2.E+01	4.E-02	1.E-02	2.E+00	8.E-01
5.E-03	2.E+01	3.E+01	6.E-02	1.E-02	3.E+00	1.E+00
4.E-03	3.E+01	3.E+01	1.E-01	2.E-02	3.E+00	1.E+00
5.E-03	4.E+01	3.E+01	1.E-01	3.E-02	3.E+00	5.E+00
2.E-03	2.E+01	3.E-01	5.E-02	1.E-02	7.E-01	2.E-01
6.E-03	8.E+01	2.E+01	2.E-01	5.E-02	3.E+00	9.E-01
5.E-04	6.E+00	2.E+00	2.E-02	4.E-03	3.E-01	7.E-02
NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA
5.E+01	NA	7.E-01	NA	NA	2.E+00	3.E-01
5.E+01	2.E+02	3.E+01	5.E-01	9.E-02	2.E+02	6.E+00

Silver	Zinc
0.00E+00	0.00E+00
1.95E+01	2.30E+02
1.95E+01	2.30E+02
0.00E+00	0.00E+00

Silver	Zinc
1.58E-01	1.86E+00
4.46E-01	1.94E+01
3.09E+00	1.16E+02
1.89E+00	2.23E+01
3.77E-01	4.45E+00
3.37E+00	3.98E+01
3.80E+00	4.48E+01
5.49E+00	6.48E+01
3.57E+00	4.21E+01
1.83E-02	3.71E-01
2.32E-03	4.69E-02
1.65E-02	3.34E-01
6.72E-01	1.36E+01
5.91E-04	1.19E-02
2.26E-03	4.56E-02
8.60E-01	1.74E+01
9.77E-02	1.95E+00
9.77E-02	1.95E+00
8.90E-01	1.44E+01
4.25E-02	1.81E+00
2.56E+00	1.01E+02
2.37E+00	9.15E+01
9.01E-01	3.84E+01
1.47E+00	5.70E+01
1.14E+00	1.34E+01
6.01E+00	7.09E+01
4.20E+00	4.96E+01
5.99E+00	7.06E+01
5.18E+00	6.11E+01
5.40E+00	6.37E+01
2.69E-01	5.14E+00
3.29E+00	4.34E+01
2.71E-01	3.57E+00
1.65E-01	1.95E+00
1.65E-01	1.95E+00
3.79E+00	7.45E+01
1.95E+01	2.30E+02

Silver	Zinc
NA	NA
4.E-01	1.E+00
2.E+00	9.E+00
2.E+00	1.E+01
3.E-01	2.E+00
3.E+00	2.E+01
3.E+00	2.E+01
4.E+00	3.E+01
3.E+00	2.E+01
1.E-02	2.E-01
2.E-03	2.E-02
1.E-02	2.E-01
5.E-01	7.E+00
5.E-04	6.E-03
2.E-03	2.E-02
7.E-01	9.E+00
8.E-02	1.E+00
8.E-02	1.E+00
4.E-01	5.E+00
3.E-03	4.E-01
2.E-01	2.E+01
2.E-01	2.E+01
7.E-02	9.E+00
1.E-01	1.E+01
8.E-02	3.E+00
4.E-01	2.E+01
3.E-01	1.E+01
4.E-01	2.E+01
4.E-01	1.E+01
4.E-01	2.E+01
2.E-02	1.E-01
2.E-01	7.E+00
2.E-02	6.E-01
NA	NA
NA	NA
NA	NA
1.E+01	5.E+00
1.E+01	3.E+01

Concentrations	Acetone	Arsenic	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Concentration in surface soil	1.70E-02	4.92E+00	0.00E+00	0.00E+00	0.00E+00
Concentration in sub-surface soil	5.80E+00	1.54E+01	5.90E-01	8.90E-01	5.20E-01
Concentration used in ERA	5.80E+00	1.54E+01	5.90E-01	8.90E-01	5.20E-01
Water concentration (mg/L)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Size of Site	**7.07E+01**				
Dose (mg/kg-d)					
Functional groups	Acetone	Arsenic	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Amphibians (A232)	4.70E-02	1.25E-01	4.78E-03	7.22E-03	4.22E-03
Avian herbivores (AV121)	2.08E+01	5.18E-02	8.83E-04	1.33E-03	5.86E-04
Avian herbivores (AV122)	1.18E+02	8.33E-01	2.57E-02	3.88E-02	2.16E-02
Avian insectivores (AV210)	2.19E-02	2.90E+00	2.27E-03	3.42E-03	2.02E-03
Black tern	5.46E-02	5.80E-01	5.56E-03	8.39E-03	4.91E-03
Avian insectivores (AV210A)	3.01E-02	2.66E+00	3.10E-03	4.68E-03	2.76E-03
Avian insectivores (AV221)	3.39E-02	3.00E+00	3.49E-03	5.27E-03	3.10E-03
Avian insectivores (AV222)	1.52E-01	4.34E+00	1.55E-02	2.34E-02	1.37E-02
Avian insectivores (AV222A)	9.88E-02	2.82E+00	1.01E-02	1.52E-02	8.91E-03
Avian carnivores (AV310)	4.36E-03	3.42E-02	4.52E-04	6.82E-04	4.03E-04
Northern goshawk	5.50E-04	4.33E-03	5.71E-05	8.61E-05	5.09E-05
Peregrine falcon	1.84E-03	1.44E-02	1.91E-04	2.88E-04	1.70E-04
Avian carnivores (AV322)	2.03E-02	1.60E-01	2.11E-03	3.18E-03	1.88E-03
Bald eagle	1.40E-04	1.10E-03	1.46E-05	2.19E-05	1.30E-05
Ferruginous hawk	5.35E-04	4.21E-03	5.56E-05	8.38E-05	4.95E-05
Loggerhead shrike	1.32E-02	1.04E-01	1.37E-03	2.07E-03	1.22E-03
Avian carnivores (AV322A)	4.85E-03	2.95E-02	5.00E-04	7.54E-04	4.44E-04
Burrowing Owl	4.85E-03	2.95E-02	5.00E-04	7.54E-04	4.44E-04
Avian omnivores (AV422)	1.22E+01	1.58E+00	8.00E-03	1.21E-02	6.95E-03
Mammalian herbivores (M121)	4.10E+00	1.23E-02	2.55E-04	3.85E-04	1.87E-04
Mammalian herbivores (M122)	8.70E+01	4.64E-01	1.32E-02	1.99E-02	1.08E-02
Mammalian herbivores (M122A)	7.78E+01	4.77E-01	1.42E-02	2.14E-02	1.18E-02
Pygmy rabbit	3.40E+01	1.02E-01	2.11E-03	3.19E-03	1.55E-03
Mammalian herbivores (M123)	4.84E+01	2.97E-01	8.83E-03	1.33E-02	7.33E-03
Mammalian insectivores (M210)	6.78E-03	9.00E-01	7.03E-04	1.06E-03	6.27E-04
Mammalian insectivores (M210A)	3.57E-02	4.74E+00	3.71E-03	5.59E-03	3.31E-03
Townsend's western big-eared bat	1.25E-02	3.32E+00	1.32E-03	2.00E-03	1.19E-03
Small-footed myotis	1.78E-02	4.73E+00	1.88E-03	2.84E-03	1.70E-03
Long-eared myotis	3.08E-02	4.09E+00	3.20E-03	4.82E-03	2.85E-03
Mammalian insectivores (M222)	3.86E-02	4.27E+00	3.99E-03	6.02E-03	3.55E-03
Mammalian carnivore (M322)	4.17E-02	1.64E-01	4.27E-03	6.43E-03	3.77E-03
Mammalian omnivores (M422)	5.66E+00	2.50E+00	1.01E-02	1.53E-02	8.91E-03
Mammalian omnivores (M422A)	1.62E+00	7.17E-01	2.90E-03	4.38E-03	2.55E-03
Reptilian insectivores (R222)	1.18E-03	1.30E-01	1.22E-04	1.84E-04	1.08E-04
Sagebrush lizard	1.18E-03	1.30E-01	1.22E-04	1.84E-04	1.08E-04
Reptilian carnivores (R322)	1.26E-01	6.01E-01	1.29E-02	1.95E-02	1.15E-02
Plants	5.80E+00	1.54E+01	5.90E-01	8.90E-01	5.20E-01

Hazard Quotient (unitless)

Functional groups	Acetone	Arsenic	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Amphibians (A232)	NA	NA	NA	NA	NA
Avian herbivores (AV121)	NA	8.E-02	NA	NA	NA
Avian herbivores (AV122)	NA	1.E+00	NA	NA	NA
Avian insectivores (AV210)	NA	5.E+00	NA	NA	NA
Black tern	NA	4.E-01	NA	NA	NA
Avian insectivores (AV210A)	NA	4.E+00	NA	NA	NA
Avian insectivores (AV221)	NA	5.E+00	NA	NA	NA
Avian insectivores (AV222)	NA	7.E+00	NA	NA	NA
Avian insectivores (AV222A)	NA	5.E+00	NA	NA	NA
Avian carnivores (AV310)	NA	8.E-02	NA	NA	NA
Northern goshawk	NA	1.E-02	NA	NA	NA
Peregrine falcon	NA	4.E-02	NA	NA	NA
Avian carnivores (AV322)	NA	4.E-01	NA	NA	NA
Bald eagle	NA	3.E-03	NA	NA	NA
Ferruginous hawk	NA	1.E-02	NA	NA	NA
Loggerhead shrike	NA	3.E-01	NA	NA	NA
Avian carnivores (AV322A)	NA	7.E-02	NA	NA	NA
Burrowing Owl	NA	7.E-02	NA	NA	NA
Avian omnivores (AV422)	NA	4.E+00	NA	NA	NA
Mammalian herbivores (M121)	1.E+00	5.E-02	3.E-02	2.E-02	9.E-03
Mammalian herbivores (M122)	2.E+01	2.E+00	1.E+00	1.E+00	5.E-01
Mammalian herbivores (M122A)	2.E+01	2.E+00	1.E+00	1.E+00	6.E-01
Pygmy rabbit	8.E+00	4.E-01	2.E-01	2.E-01	8.E-02
Mammalian herbivores (M123)	1.E+01	1.E+00	9.E-01	7.E-01	4.E-01
Mammalian insectivores (M210)	2.E-03	3.E+00	7.E-02	5.E-02	3.E-02
Mammalian insectivores (M210A)	9.E-03	2.E+01	4.E-01	3.E-01	2.E-01
Townsend's western big-eared bat	3.E-03	1.E+01	1.E-01	1.E-01	6.E-02
Small-footed myotis	4.E-03	2.E+01	2.E-01	1.E-01	8.E-02
Long-eared myotis	7.E-03	2.E+01	3.E-01	2.E-01	1.E-01
Mammalian insectivores (M222)	9.E-03	2.E+01	4.E-01	3.E-01	2.E-01
Mammalian carnivore (M322)	1.E-02	6.E-01	4.E-01	3.E-01	2.E-01
Mammalian omnivores (M422)	9.E-01	6.E+00	1.E+00	5.E-01	3.E-01
Mammalian omnivores (M422A)	3.E-01	2.E+00	3.E-01	1.E-01	8.E-02
Reptilian insectivores (R222)	NA	NA	NA	NA	NA
Sagebrush lizard	NA	NA	NA	NA	NA
Reptilian carnivores (R322)	NA	NA	NA	NA	NA
Plants	NA	2.E+00	NA	NA	NA
Maximum hazard quotient	2.E+01	2.E+01	1.E+00	1.E+00	6.E-01

Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Lead	Mercury
0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E+01	8.00E-02
1.20E+00	9.20E-01	3.80E-01	6.50E-01	1.88E+02	8.00E-02
1.20E+00	9.20E-01	3.80E-01	6.50E-01	1.88E+02	8.00E-02
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Lead	Mercury
9.73E-03	7.46E-03	3.08E-03	5.27E-03	1.52E+00	6.49E-04
1.80E-03	1.98E-03	5.69E-04	7.37E-04	6.95E-01	4.89E-03
5.23E-02	4.35E-02	1.65E-02	2.70E-02	1.05E+01	3.04E-02
4.62E-03	3.51E-03	1.46E-03	2.53E-03	1.11E+01	6.22E-03
1.13E-02	8.67E-03	3.58E-03	6.13E-03	3.36E+00	1.66E-03
6.31E-03	4.81E-03	2.00E-03	3.45E-03	1.04E+01	5.79E-03
7.10E-03	5.42E-03	2.25E-03	3.88E-03	1.17E+01	6.51E-03
3.15E-02	2.41E-02	9.99E-03	1.71E-02	1.93E+01	1.03E-02
2.05E-02	1.57E-02	6.50E-03	1.11E-02	1.26E+01	6.68E-03
9.19E-04	6.99E-04	2.91E-04	5.04E-04	4.29E+00	2.12E-03
1.16E-04	8.84E-05	3.68E-05	6.36E-05	5.42E-01	2.68E-04
3.88E-04	2.95E-04	1.23E-04	2.12E-04	1.81E+00	8.95E-04
4.29E-03	3.26E-03	1.36E-03	2.35E-03	2.00E+01	9.89E-03
2.96E-05	2.25E-05	9.37E-06	1.62E-05	1.38E-01	6.83E-05
1.13E-04	8.60E-05	3.58E-05	6.19E-05	5.28E-01	2.61E-04
2.79E-03	2.12E-03	8.82E-04	1.53E-03	1.30E+01	6.43E-03
1.02E-03	7.75E-04	3.22E-04	5.55E-04	3.21E+00	1.58E-03
1.02E-03	7.75E-04	3.22E-04	5.55E-04	3.21E+00	1.58E-03
1.63E-02	1.28E-02	5.15E-03	8.69E-03	1.27E+01	8.80E-03
5.19E-04	5.18E-04	1.64E-04	2.35E-04	1.63E-01	9.77E-04
2.68E-02	2.31E-02	8.48E-03	1.35E-02	5.93E+00	2.17E-02
2.88E-02	2.44E-02	9.13E-03	1.47E-02	6.06E+00	1.98E-02
4.30E-03	4.29E-03	1.36E-03	1.94E-03	1.35E+00	8.09E-03
1.80E-02	1.52E-02	5.68E-03	9.17E-03	3.78E+00	1.23E-02
1.43E-03	1.09E-03	4.53E-04	7.84E-04	3.45E+00	1.93E-03
7.54E-03	5.74E-03	2.39E-03	4.13E-03	1.82E+01	1.02E-02
2.69E-03	2.03E-03	8.52E-04	1.49E-03	1.24E+01	7.00E-03
3.83E-03	2.89E-03	1.21E-03	2.12E-03	1.77E+01	9.97E-03
6.50E-03	4.95E-03	2.06E-03	3.56E-03	1.57E+01	8.75E-03
8.12E-03	6.18E-03	2.57E-03	4.44E-03	1.65E+01	9.19E-03
8.68E-03	6.64E-03	2.75E-03	4.71E-03	1.11E+01	5.40E-03
2.06E-02	1.60E-02	6.53E-03	1.11E-02	1.96E+01	1.07E-02
5.91E-03	4.57E-03	1.87E-03	3.19E-03	5.64E+00	3.08E-03
2.48E-04	1.89E-04	7.85E-05	1.36E-04	5.04E-01	2.81E-04
2.48E-04	1.89E-04	7.85E-05	1.36E-04	5.04E-01	2.81E-04
2.63E-02	2.01E-02	8.34E-03	1.43E-02	5.28E+01	2.59E-02
1.20E+00	9.20E-01	3.80E-01	6.50E-01	1.88E+02	8.00E-02

Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Lead	Mercury
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	2.E+01	1.E+00
NA	NA	NA	NA	4.E+02	8.E+00
NA	NA	NA	NA	3.E+02	4.E-02
NA	NA	NA	NA	1.E+02	2.E-01
NA	NA	NA	NA	1.E+02	4.E-02
NA	NA	NA	NA	3.E+02	4.E-02
NA	NA	NA	NA	5.E+02	6.E-02
NA	NA	NA	NA	3.E+02	4.E-02
NA	NA	NA	NA	1.E+02	1.E-02
NA	NA	NA	NA	1.E+01	2.E-03
NA	NA	NA	NA	5.E+01	6.E-03
NA	NA	NA	NA	7.E+02	6.E-02
NA	NA	NA	NA	5.E+00	4.E-04
NA	NA	NA	NA	2.E+01	2.E-03
NA	NA	NA	NA	4.E+02	4.E-02
NA	NA	NA	NA	1.E+02	1.E-02
NA	NA	NA	NA	1.E+02	1.E-02
NA	NA	NA	NA	4.E+02	4.E-02
3.E-02	7.E-03	8.E-03	1.E-02	6.E-02	1.E-01
1.E+00	3.E-01	4.E-01	7.E-01	2.E+00	2.E+00
1.E+00	3.E-01	5.E-01	7.E-01	2.E+00	2.E+00
2.E-01	6.E-02	7.E-02	1.E-01	5.E-01	9.E-01
9.E-01	2.E-01	3.E-01	5.E-01	1.E+00	1.E+00
7.E-02	2.E-02	2.E-02	4.E-02	1.E+00	2.E-01
4.E-01	8.E-02	1.E-01	2.E-01	7.E+00	1.E+00
1.E-01	3.E-02	4.E-02	7.E-02	5.E+00	8.E-01
2.E-01	4.E-02	6.E-02	1.E-01	7.E+00	1.E+00
3.E-01	7.E-02	1.E-01	2.E-01	6.E+00	1.E+00
4.E-01	9.E-02	1.E-01	2.E-01	6.E+00	5.E+00
4.E-01	9.E-02	1.E-01	2.E-01	4.E+00	7.E-01
7.E-01	2.E-01	2.E-01	4.E-01	5.E+00	9.E-01
2.E-01	5.E-02	6.E-02	1.E-01	2.E+00	2.E-01
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	4.E+00	3.E-01
1.E+00	3.E-01	5.E-01	7.E-01	7.E+02	8.E+00

Concentrations	Aroclor-1254	Arsenic	Barium	Cadmium	Chromium III	Cobalt
Concentration in surface soil	2.80E+00	7.63E+00	2.40E+02	3.40E+00	1.02E+02	1.00E+01
Concentration in sub-surface soil	0.00E+00	1.24E+01	5.30E+02	2.30E+00	2.70E+01	1.00E+01
Concentration used in ERA	2.80E+00	1.24E+01	5.30E+02	3.40E+00	1.02E+02	1.00E+01
Water concentration (mg/L)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Size of Site	**6.88E-01**					
Dose (mg/kg-d)						
Functional groups	Aroclor-1254	Arsenic	Barium	Cadmium	Chromium III	Cobalt
Amphibians (A232)	2.14E-02	1.01E-01	4.30E+00	2.70E-02	7.91E-01	8.11E-02
Avian herbivores (AV121)	3.17E-04	5.54E-03	7.56E-01	1.69E-02	9.25E-03	9.01E-02
Avian herbivores (AV122)	1.79E-03	8.91E-02	6.75E+00	1.06E-01	1.78E-01	5.56E-01
Avian insectivores (AV210)	1.68E-05	1.92E-01	8.21E+00	5.75E-02	1.01E-01	1.55E-01
Black tern	2.57E-06	3.84E-02	1.64E+00	1.05E-02	3.51E-02	3.09E-02
Avian insectivores (AV210A)	4.24E-03	6.18E-01	2.64E+01	1.86E-01	4.48E-01	4.98E-01
Avian insectivores (AV221)	2.09E-04	2.41E+00	1.03E+02	7.20E-01	1.31E+00	1.95E+00
Avian insectivores (AV222)	2.82E-04	3.49E+00	1.49E+02	1.02E+00	2.27E+00	2.82E+00
Avian insectivores (AV222A)	4.79E-02	2.27E+00	9.71E+01	6.79E-01	2.75E+00	1.83E+00
Avian carnivores (AV310)	3.96E-07	2.68E-04	6.72E-03	2.33E-03	7.50E-03	3.65E-03
Northern goshawk	5.00E-08	3.39E-05	8.49E-04	2.94E-04	9.48E-04	4.62E-04
Peregrine falcon	3.57E-07	2.42E-04	6.06E-03	2.10E-03	6.76E-03	3.29E-03
Avian carnivores (AV322)	1.45E-05	9.83E-03	2.46E-01	8.54E-02	2.75E-01	1.34E-01
Bald eagle	1.28E-08	8.64E-06	2.16E-04	7.50E-05	2.42E-04	1.18E-04
Ferruginous hawk	4.87E-08	3.30E-05	8.26E-04	2.86E-04	9.22E-04	4.49E-04
Loggerhead shrike	1.86E-05	1.26E-02	3.15E-01	1.09E-01	3.52E-01	1.71E-01
Avian carnivores (AV322A)	1.63E-04	1.64E-03	4.53E-02	1.22E-02	4.38E-02	1.92E-02
Burrowing Owl	1.63E-04	1.64E-03	4.53E-02	1.22E-02	4.38E-02	1.92E-02
Avian omnivores (AV422)	9.34E-05	7.96E-02	3.54E+00	4.20E-02	1.36E-01	8.77E-02
Mammalian herbivores (M121)	7.70E-05	6.22E-04	7.50E-02	1.61E-03	2.36E-03	8.47E-03
Mammalian herbivores (M122)	9.99E-03	3.74E-01	3.23E+01	5.69E-01	7.25E-01	3.00E+00
Mammalian herbivores (M122A)	6.76E-02	3.84E-01	3.11E+01	5.41E-01	2.33E+00	2.72E+00
Pygmy rabbit	1.02E-02	8.23E-02	9.92E+00	2.13E-01	3.13E-01	1.12E+00
Mammalian herbivores (M123)	4.21E-02	2.39E-01	1.94E+01	3.37E-01	1.45E+00	1.69E+00
Mammalian insectivores (M210)	1.82E-05	2.09E-01	8.91E+00	6.24E-02	1.10E-01	1.68E-01
Mammalian insectivores (M210A)	5.06E-03	1.10E+00	4.70E+01	3.31E-01	7.13E-01	8.87E-01
Townsend's western big-eared bat	1.81E-03	7.69E-01	3.29E+01	2.32E-01	4.39E-01	6.20E-01
Small-footed myotis	2.57E-03	1.10E+00	4.68E+01	3.30E-01	6.26E-01	8.84E-01
Long-eared myotis	4.36E-03	9.48E-01	4.05E+01	2.85E-01	6.14E-01	7.65E-01
Mammalian insectivores (M222)	1.89E-02	3.44E+00	1.47E+02	1.03E+00	2.33E+00	2.77E+00
Mammalian carnivore (M322)	1.07E-03	6.98E-03	2.38E-01	3.08E-02	1.32E-01	4.94E-02
Mammalian omnivores (M422)	4.60E-02	1.92E+00	8.32E+01	9.80E-01	4.48E+00	1.72E+00
Mammalian omnivores (M422A)	6.32E-04	2.65E-02	1.15E+00	1.35E-02	6.17E-02	2.36E-02
Reptilian insectivores (R222)	5.78E-04	1.05E-01	4.49E+00	3.16E-02	7.13E-02	8.47E-02
Sagebrush lizard	5.78E-04	1.05E-01	4.49E+00	3.16E-02	7.13E-02	8.47E-02
Reptilian carnivores (R322)	1.41E-02	1.11E-01	3.43E+00	6.56E-01	2.53E+00	1.04E+00
Plants	2.80E+00	1.24E+01	5.30E+02	3.40E+00	1.02E+02	1.00E+01

Hazard Quotient (unitless)

Functional groups	Aroclor-1254	Arsenic	Barium	Cadmium	Chromium III	Cobalt
Amphibians (A232)	NA	NA	NA	NA	NA	NA
Avian herbivores (AV121)	8.E-03	9.E-03	NA	9.E-01	7.E-03	4.E-01
Avian herbivores (AV122)	4.E-02	1.E-01	NA	6.E+00	1.E-01	3.E+00
Avian insectivores (AV210)	4.E-04	3.E-01	NA	5.E+00	7.E-02	7.E-01
Black tern	6.E-05	3.E-02	NA	9.E-01	3.E-02	1.E-01
Avian insectivores (AV210A)	1.E-01	1.E+00	NA	2.E+01	3.E-01	2.E+00
Avian insectivores (AV221)	5.E-03	4.E+00	NA	6.E+01	1.E+00	9.E+00
Avian insectivores (AV222)	7.E-03	6.E+00	NA	8.E+01	2.E+00	1.E+01
Avian insectivores (AV222A)	1.E+00	4.E+00	NA	6.E+01	2.E+00	9.E+00
Avian carnivores (AV310)	2.E-04	7.E-04	NA	2.E-01	6.E-03	2.E-02
Northern goshawk	2.E-05	8.E-05	NA	2.E-02	7.E-04	2.E-03
Peregrine falcon	1.E-04	6.E-04	NA	2.E-01	5.E-03	2.E-02
Avian carnivores (AV322)	6.E-03	2.E-02	NA	7.E+00	2.E-01	6.E-01
Bald eagle	5.E-06	2.E-05	NA	6.E-03	2.E-04	6.E-04
Ferruginous hawk	2.E-05	8.E-05	NA	2.E-02	7.E-04	2.E-03
Loggerhead shrike	7.E-03	3.E-02	NA	9.E+00	3.E-01	8.E-01
Avian carnivores (AV322A)	7.E-02	4.E-03	NA	1.E+00	3.E-02	9.E-02
Burrowing Owl	7.E-02	4.E-03	NA	1.E+00	3.E-02	9.E-02
Avian omnivores (AV422)	2.E-02	2.E-01	NA	2.E-01	7.E-02	3.E-01
Mammalian herbivores (M121)	2.E-03	2.E-03	2.E-03	2.E+00	9.E-06	6.E-02
Mammalian herbivores (M122)	2.E-01	1.E+00	7.E-01	7.E+02	3.E-03	2.E+01
Mammalian herbivores (M122A)	1.E+00	1.E+00	7.E-01	7.E+02	9.E-03	2.E+01
Pygmy rabbit	2.E-01	3.E-01	2.E-01	3.E+02	1.E-03	8.E+00
Mammalian herbivores (M123)	9.E-01	9.E-01	4.E-01	4.E+02	6.E-03	1.E+01
Mammalian insectivores (M210)	4.E-04	8.E-01	2.E-01	8.E+01	4.E-04	1.E+00
Mammalian insectivores (M210A)	1.E-01	4.E+00	1.E+00	4.E+02	3.E-03	6.E+00
Townsend's western big-eared bat	4.E-02	3.E+00	7.E-01	3.E+02	2.E-03	4.E+00
Small-footed myotis	6.E-02	4.E+00	1.E+00	4.E+02	3.E-03	6.E+00
Long-eared myotis	9.E-02	4.E+00	9.E-01	4.E+02	2.E-03	5.E+00
Mammalian insectivores (M222)	4.E-01	1.E+01	3.E+00	1.E+03	9.E-03	2.E+01
Mammalian carnivore (M322)	8.E-03	3.E-02	5.E-03	4.E+01	5.E-04	4.E-01
Mammalian omnivores (M422)	3.E-01	5.E+00	1.E+00	1.E+03	1.E-02	1.E+01
Mammalian omnivores (M422A)	4.E-03	8.E-02	2.E-02	1.E+01	2.E-04	6.E-03
Reptilian insectivores (R222)	NA	NA	NA	NA	NA	NA
Sagebrush lizard	NA	NA	NA	NA	NA	NA
Reptilian carnivores (R322)	NA	NA	NA	NA	NA	NA
Plants	7.E-02	1.E+00	1.E+00	1.E+00	1.E+02	NA
Maximum hazard quotient	1.E+00	1.E+01	3.E+00	1.E+03	1.E+02	2.E+01

Copper	Lead	Mercury	Nickel	Nitrate	Silver	Tetrachloroethylene	Toluene
1.40E+02	4.24E+01	4.39E+02	1.60E+02	2.90E+00	3.10E+01	1.84E+02	1.84E+02
2.20E+01	2.10E+01	1.47E+02	3.40E+01	1.00E+01	0.00E+00	4.47E+03	4.47E+03
1.40E+02	4.24E+01	4.39E+02	1.60E+02	1.00E+01	3.10E+01	4.47E+03	4.47E+03
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Copper	Lead	Mercury	Nickel	Nitrate	Silver	Tetrachloroethylene	Toluene
1.08E+00	3.34E-01	3.42E+00	1.24E+00	8.11E-02	2.37E-01	3.62E+01	3.62E+01
5.01E-01	1.89E-02	3.54E+00	8.86E-02	9.01E-02	1.11E-01	4.90E+01	4.11E+01
2.94E+00	2.05E-01	2.07E+01	6.60E-01	5.56E-01	6.25E-01	2.98E+02	2.53E+02
2.13E+00	1.99E-01	2.71E+00	2.44E+00	1.55E-01	4.70E-01	6.92E+01	6.92E+01
3.42E-01	4.58E-02	5.21E-01	3.98E-01	3.09E-02	7.19E-02	1.38E+01	1.38E+01
6.97E+00	6.78E-01	9.14E+00	7.97E+00	4.98E-01	1.54E+00	2.23E+02	2.23E+02
2.66E+01	2.52E+00	3.40E+01	3.04E+01	1.95E+00	5.85E+00	8.70E+02	8.70E+02
3.63E+01	3.80E+00	4.87E+01	4.17E+01	2.82E+00	7.92E+00	1.26E+03	1.26E+03
2.56E+01	2.84E+00	3.66E+01	2.93E+01	1.83E+00	5.68E+00	8.19E+02	8.19E+02
1.02E-02	9.26E-03	1.11E-01	5.92E-04	3.65E-03	4.44E-03	1.63E+00	1.63E+00
1.29E-03	1.17E-03	1.40E-02	7.48E-05	4.62E-04	5.61E-04	2.06E-01	2.06E-01
9.18E-03	8.35E-03	1.00E-01	5.34E-04	3.29E-03	4.00E-03	1.47E+00	1.47E+00
3.73E-01	3.39E-01	4.07E+00	2.17E-02	1.34E-01	1.63E-01	5.98E+01	5.98E+01
3.28E-04	2.98E-04	3.58E-03	1.91E-05	1.18E-04	1.43E-04	5.26E-02	5.26E-02
1.25E-03	1.14E-03	1.37E-02	7.28E-05	4.49E-04	5.46E-04	2.01E-01	2.01E-01
4.78E-01	4.34E-01	5.21E+00	2.78E-02	1.71E-01	2.08E-01	7.66E+01	7.66E+01
6.01E-02	4.98E-02	5.97E-01	1.10E-02	1.92E-02	2.48E-02	8.57E+00	8.57E+00
6.01E-02	4.98E-02	5.97E-01	1.10E-02	1.92E-02	2.48E-02	8.57E+00	8.57E+00
9.26E-01	1.62E-01	2.78E+00	9.32E-01	8.77E-02	2.01E-01	4.16E+01	3.94E+01
4.89E-02	2.30E-03	3.35E-01	1.07E-02	8.47E-03	1.08E-02	4.60E+00	3.86E+00
1.61E+01	9.33E-01	1.14E+02	3.34E+00	3.00E+00	3.48E+00	1.62E+03	1.37E+03
1.70E+01	1.37E+00	1.08E+02	5.76E+00	2.72E+00	3.76E+00	1.46E+03	1.24E+03
6.47E+00	3.05E-01	4.44E+01	1.41E+00	1.12E+00	1.43E+00	6.09E+02	5.11E+02
1.06E+01	8.52E-01	6.75E+01	3.59E+00	1.69E+00	2.34E+00	9.11E+02	7.72E+02
2.31E+00	2.17E-01	2.94E+00	2.65E+00	1.68E-01	5.11E-01	7.52E+01	7.52E+01
1.24E+01	1.18E+00	1.60E+01	1.42E+01	8.87E-01	2.75E+00	3.96E+02	3.96E+02
8.69E+00	8.08E-01	1.11E+01	9.93E+00	6.20E-01	1.92E+00	2.77E+02	2.77E+02
1.24E+01	1.15E+00	1.58E+01	1.41E+01	8.84E-01	2.74E+00	3.95E+02	3.95E+02
1.07E+01	1.02E+00	1.38E+01	1.22E+01	7.65E-01	2.37E+00	3.42E+02	3.42E+02
3.88E+01	3.72E+00	5.04E+01	4.43E+01	2.77E+00	8.59E+00	1.24E+03	1.24E+03
1.81E-01	1.32E-01	1.57E+00	6.53E-02	4.94E-02	6.84E-02	2.21E+01	2.21E+01
2.26E+01	4.23E+00	5.64E+01	2.49E+01	1.72E+00	5.00E+00	7.84E+02	7.68E+02
3.11E-01	5.83E-02	7.76E-01	3.42E-01	2.36E-02	6.88E-02	1.08E+01	1.06E+01
1.19E+00	1.14E-01	1.54E+00	1.35E+00	8.47E-02	2.62E-01	3.78E+01	3.78E+01
1.19E+00	1.14E-01	1.54E+00	1.35E+00	8.47E-02	2.62E-01	3.78E+01	3.78E+01
3.47E+00	2.73E+00	3.26E+01	8.93E-01	1.04E+00	1.38E+00	4.65E+02	4.65E+02
1.40E+02	4.24E+01	4.39E+02	1.60E+02	1.00E+01	3.10E+01	4.47E+03	4.47E+03

Copper	Lead	Mercury	Nickel	Nitrate	Silver	Tetrachloroethylene	Toluene
NA	NA	NA	NA	NA	NA	NA	NA
1.E-01	6.E-01	9.E+02	1.E-02	7.E-03	9.E-02	NA	NA
7.E-01	7.E+00	5.E+03	8.E-02	4.E-02	5.E-01	NA	NA
5.E-01	5.E+00	2.E+01	1.E+00	1.E-02	4.E-01	NA	NA
9.E-02	2.E+00	7.E+01	2.E-01	2.E-03	6.E-02	NA	NA
2.E+00	8.E+00	6.E+01	4.E+00	4.E-02	1.E+00	NA	NA
7.E+00	6.E+01	2.E+02	1.E+01	1.E-01	5.E+00	NA	NA
9.E+00	9.E+01	3.E+02	2.E+01	2.E-01	6.E+00	NA	NA
7.E+00	7.E+01	2.E+02	1.E+01	1.E-01	5.E+00	NA	NA
3.E-03	3.E-01	7.E-01	3.E-04	3.E-04	4.E-03	NA	NA
3.E-04	3.E-02	9.E-02	4.E-05	3.E-05	4.E-04	NA	NA
2.E-03	2.E-01	6.E-01	3.E-04	2.E-04	3.E-03	NA	NA
1.E-01	1.E+01	3.E+01	1.E-02	1.E-02	1.E-01	NA	NA
8.E-05	1.E-02	2.E-02	9.E-06	9.E-06	1.E-04	NA	NA
3.E-04	4.E-02	9.E-02	4.E-05	3.E-05	4.E-04	NA	NA
1.E-01	1.E+01	3.E+01	1.E-02	1.E-02	2.E-01	NA	NA
2.E-02	2.E+00	4.E+00	5.E-03	1.E-03	2.E-02	NA	NA
2.E-02	2.E+00	4.E+00	5.E-03	1.E-03	2.E-02	NA	NA
2.E-01	5.E+00	1.E+01	3.E-01	4.E-03	8.E-02	NA	NA
8.E-02	9.E-04	4.E+01	1.E-02	3.E-05	8.E-04	8.E+00	4.E-01
2.E+01	3.E-01	1.E+04	4.E+00	1.E-02	3.E-01	3.E+03	1.E+02
3.E+01	5.E-01	1.E+04	7.E+00	1.E-02	3.E-01	3.E+03	1.E+02
1.E+01	1.E-01	5.E+03	2.E+00	4.E-03	1.E-01	1.E+03	5.E+01
2.E+01	3.E-01	7.E+03	4.E+00	7.E-03	2.E-01	2.E+03	8.E+01
4.E+00	8.E-02	4.E+02	3.E+00	1.E-03	4.E-02	1.E+02	8.E+00
2.E+01	4.E-01	2.E+03	2.E+01	5.E-03	2.E-01	7.E+02	4.E+01
1.E+01	3.E-01	1.E+03	1.E+01	4.E-03	1.E-01	5.E+02	3.E+01
2.E+01	4.E-01	2.E+03	2.E+01	5.E-03	2.E-01	7.E+02	4.E+01
2.E+01	4.E-01	2.E+03	1.E+01	5.E-03	2.E-01	6.E+02	4.E+01
6.E+01	1.E+00	3.E+04	5.E+01	2.E-02	6.E-01	2.E+03	1.E+02
9.E-02	5.E-02	2.E+02	8.E-02	3.E-04	5.E-03	4.E+01	2.E+00
3.E+01	1.E+00	5.E+03	2.E+01	1.E-02	3.E-01	9.E+02	6.E+01
5.E-01	2.E-02	6.E+01	3.E-02	1.E-04	4.E-03	1.E+01	8.E-01
NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA
1.E+00	8.E-01	1.E+03	5.E+00	NA	2.E+01	NA	NA
6.E+01	9.E+01	3.E+04	5.E+01	2.E-01	2.E+01	3.E+03	1.E+02

TPH	Xylene	Vanadium	Zinc
1.84E+02	1.84E+02	3.90E+01	1.84E+02
4.47E+03	4.47E+03	4.60E+01	4.47E+03
4.47E+03	4.47E+03	4.60E+01	4.47E+03
0.00E+00	0.00E+00	0.00E+00	0.00E+00

TPH	Xylene	Vanadium	Zinc
3.62E+01	3.62E+01	3.73E-01	3.62E+01
4.03E+01	6.22E-01	2.11E-01	6.02E+01
2.48E+02	2.43E+01	1.41E+00	3.61E+02
6.92E+01	6.92E+01	1.43E-02	6.92E+01
1.38E+01	1.38E+01	3.56E-02	1.38E+01
2.23E+02	2.23E+02	6.88E-02	2.23E+02
8.70E+02	8.70E+02	2.69E-01	8.70E+02
1.26E+03	1.26E+03	1.20E+00	1.26E+03
8.19E+02	8.19E+02	7.84E-01	8.19E+02
1.63E+00	4.15E-02	3.37E-04	1.15E+00
2.06E-01	5.24E-03	4.25E-05	1.46E-01
1.47E+00	3.74E-02	3.03E-04	1.04E+00
5.98E+01	1.52E+00	1.23E-02	4.22E+01
5.26E-02	1.34E-03	1.08E-05	3.71E-02
2.01E-01	5.10E-03	4.14E-05	1.42E-01
7.66E+01	1.94E+00	1.58E-02	5.41E+01
8.57E+00	3.03E-01	2.65E-03	6.08E+00
8.57E+00	3.03E-01	2.65E-03	6.08E+00
3.92E+01	2.83E+01	9.45E-02	4.47E+01
3.79E+00	9.61E-02	2.00E-02	5.64E+00
1.34E+03	9.13E+01	7.38E+00	1.97E+03
1.22E+03	9.98E+01	6.79E+00	1.78E+03
5.01E+02	1.27E+01	2.65E+00	7.47E+02
7.58E+02	6.22E+01	4.23E+00	1.11E+03
7.52E+01	7.52E+01	1.55E-02	7.52E+01
3.96E+02	3.96E+02	8.17E-02	3.96E+02
2.77E+02	2.77E+02	2.86E-02	2.77E+02
3.95E+02	3.95E+02	4.07E-02	3.95E+02
3.42E+02	3.42E+02	7.04E-02	3.42E+02
1.24E+03	1.24E+03	3.06E-01	1.24E+03
2.21E+01	1.81E+00	1.75E-02	1.60E+01
7.67E+02	6.90E+02	1.14E+00	8.05E+02
1.06E+01	9.51E+00	1.57E-02	1.11E+01
3.78E+01	3.78E+01	9.36E-03	3.78E+01
3.78E+01	3.78E+01	9.36E-03	3.78E+01
4.65E+02	2.47E+01	2.30E-01	3.32E+02
4.47E+03	4.47E+03	4.60E+01	4.47E+03

TPH	Xylene	Vanadium	Zinc
NA	NA	NA	NA
2.E+00	5.E+00	NA	5.E+00
1.E+01	2.E+02	NA	3.E+01
4.E+00	9.E+02	NA	3.E+01
9.E-01	2.E+02	NA	7.E+00
1.E+01	3.E+03	NA	1.E+02
5.E+01	1.E+04	NA	4.E+02
8.E+01	2.E+04	NA	6.E+02
5.E+01	1.E+04	NA	4.E+02
1.E-01	5.E-01	NA	6.E-01
1.E-02	7.E-02	NA	7.E-02
9.E-02	5.E-01	NA	5.E-01
4.E+00	2.E+01	NA	2.E+01
3.E-03	2.E-02	NA	2.E-02
1.E-02	6.E-02	NA	7.E-02
5.E+00	2.E+01	NA	3.E+01
5.E-01	4.E+00	NA	3.E+00
5.E-01	4.E+00	NA	3.E+00
2.E+00	4.E+02	NA	1.E+01
1.E-01	6.E-01	2.E-01	1.E+00
4.E+01	6.E+02	9.E+01	5.E+02
4.E+01	7.E+02	8.E+01	4.E+02
2.E+01	8.E+01	3.E+01	2.E+02
2.E+01	4.E+02	5.E+01	3.E+02
2.E+00	5.E+02	2.E-01	2.E+01
1.E+01	3.E+03	1.E+00	1.E+02
9.E+00	2.E+03	3.E-01	7.E+01
1.E+01	3.E+03	5.E-01	9.E+01
1.E+01	2.E+03	8.E-01	8.E+01
4.E+01	8.E+03	4.E+00	3.E+02
2.E-01	1.E+01	2.E-01	5.E-01
2.E+01	3.E+03	9.E+00	1.E+02
3.E-01	4.E+01	1.E-01	2.E+00
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	2.E+01	NA	9.E+01
8.E+01	2.E+04	9.E+01	6.E+02