

APPENDIX A

Mechanistic Food Chain Model

TOXICITY REFERENCE VALUES FOR SELECTED COPCS (MG/KG/DAY)

NOAEL-based TRV		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
	Short-tailed Shrew	2.3E+00	1.5E-01	1.5E-01	1.1E+01	1.5E+00	2.1E+00	7.2E+00	1.0E+01	3.3E+01	1.8E+01	1.9E+02	2.9E+00	8.8E+01	4.4E-01	4.5E-01	1.6E-02	4.3E-01	3.5E+02	
	Raccoon	5.2E-01	3.4E-02	3.4E-02	2.5E+00	3.3E-01	4.8E-01	1.6E+00	1.0E+01	7.6E+00	4.0E+00	4.4E+01	6.5E-01	2.0E+01	9.9E-02	1.0E-01	3.7E-03	9.7E-02	7.9E+01	
	Willow Flycatcher	1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
	American Robin	1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
	Red-tailed Hawk	1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
	Mallard Duck	1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
	Great Blue Heron	1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	

ENVIRONMENTAL CONCENTRATIONS FOR SELECTED COPCS (MG/KG)

	Plants	4.3E+01	3.3E-01	7.4E-01	1.6E+01	7.6E-03	6.7E-01	2.8E-01	1.0E-01	1.3E+01	5.6E+00	4.4E+01	9.3E-03	7.5E-01	1.3E-02	5.2E-01	1.0E-02	1.8E-01	2.8E-10	
	Soil Invertebrates	2.4E+03	3.6E+00	2.3E+00	2.3E+01	1.7E-01	1.8E+00	3.7E-01	2.0E+00	1.3E+00	3.7E+00	8.5E+01	9.9E-03	4.7E-01	1.7E-01	2.9E-01	5.7E-01	7.4E+00	1.3E+02	
	Small Mammals	3.9E+02	1.9E+00	1.2E-01	1.8E+00	9.1E-02	4.9E+00	4.8E+00	9.8E-01	1.8E+01	2.4E+01	1.1E+01	3.1E-02	8.6E+00	2.8E-01	1.5E-01	2.9E-01	4.0E-01	3.5E+02	
	Aquatic Insects	1.2E+03	1.4E-02	2.7E+00	1.4E+01	1.8E-02	7.6E+00	3.3E+00	4.3E+01	1.3E+02	9.0E+02	2.9E+03	0.0E+00	6.1E-01	0.0E+00	0.0E+00	0.0E+00	1.4E+01	2.2E+03	
	Fish	8.1E-01	8.0E-02	4.2E+00	4.3E+01	2.5E-02	2.0E+00	2.1E-02	1.1E+01	2.4E+01	1.6E-02	7.4E+02	0.0E+00	1.7E+00	0.0E+00	0.0E+00	0.0E+00	3.7E+00	9.8E+02	
	Sediment Benthos	6.3E+03	2.3E+00	4.9E+01	1.2E+02	8.3E-01	4.8E+00	1.2E+01	7.2E+00	1.7E+01	1.8E+02	3.7E+02	2.0E-02	4.9E+01	1.8E+00	8.7E-01	0.0E+00	2.4E+01	6.9E+02	
	Sediment	7.0E+03	2.6E+00	5.4E+01	1.3E+02	9.2E-01	1.4E+00	3.2E+01	8.0E+00	5.7E+01	2.9E+02	4.2E+02	3.0E-01	5.4E+01	2.0E+00	9.7E-01	0.0E+00	2.7E+01	1.2E+03	
	Water (mg/L)	3.0E-01	2.0E-03	3.7E-02	6.8E-02	4.1E-04	2.2E-03	1.1E-03	6.0E-03	3.4E-02	1.8E-01	4.0E-01	0.0E+00	2.2E-02	0.0E+00	0.0E+00	0.0E+00	2.0E-03	4.8E-01	
	Soil	1.1E+04	1.6E+01	2.1E+01	1.1E+02	7.6E-01	1.8E+00	3.7E+01	9.0E+00	3.4E+01	1.2E+02	3.9E+02	2.5E-01	2.4E+01	7.9E-01	1.3E+00	2.6E+00	3.3E+01	2.3E+02	

BIOACCUMULATION/BIOCONCENTRATION FACTORS

Soil to Plant	4.0E-03	2.0E-02	3.6E-02	1.5E-01	1.0E-02	3.6E-01	7.5E-03	1.2E-02	4.0E-01	4.5E-02	1.1E-01	3.8E-02	3.2E-02	1.6E-02	4.0E-01	4.0E-03	5.5E-03	1.2E-12	
Soil to Invertebrate	2.2E-01	2.2E-01	1.1E-01	2.2E-01	2.2E-01	9.6E-01	1.0E-02	2.2E-01	4.0E-02	3.0E-02	2.2E-01	4.0E-02	2.0E-02	2.2E-01	2.2E-01	2.2E-01	2.2E-01	5.6E-01	
Soil to Small Mammal	3.7E-02	1.2E-01	6.0E-03	1.7E-02	1.2E-01	2.6E+00	1.3E-01	1.1E-01	5.5E-01	1.9E-01	2.9E-02	1.2E-01	3.7E-01	3.6E-01	1.1E-01	1.1E-01	1.2E-02	1.5E+00	
Water to Aquatic Insect	4.1E+03	7.0E+00	7.3E+01	2.0E+02	4.5E+01	3.5E+03	3.0E+03	7.2E+03	3.7E+03	5.1E+03	7.2E+03	2.0E+04	2.8E+01	1.3E+03	3.0E+02	1.5E+04	7.2E+03	4.6E+03	
Water to Fish	2.7E+00	4.0E+01	1.1E+02	6.3E+02	6.2E+01	9.1E+02	1.9E+01	1.8E+03	7.1E+02	9.0E-02	1.8E+03	3.5E+03	7.8E+01	1.3E+02	8.8E+01	1.0E+04	1.8E+03	2.1E+03	
Sediment to Invertebrate	9.0E-01	9.0E-01	9.0E-01	9.0E-01	9.0E-01	3.4E+00	3.9E-01	9.0E-01	3.0E-01	6.3E-01	9.0E-01	6.8E-02	9.0E-01	9.0E-01	9.0E-01	9.0E-01	9.0E-01	5.7E-01	

SUMMARY OF SCREENING QUOTIENTS

NOAEL-based TRV	Aluminum	Antimony	Arsenic	Chromium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Short-tailed Shrew	989.0	23.1	19.8	2.0	0.1	0.6	0.4	0.2	0.1	0.7	0.4	0.0	0.0	0.4	0.6	33.1	16.4	0.3	
Raccoon	55.9	1.3	1.3	0.1	0.0	0.2	0.0	0.0	0.1	1.4	0.4	0.0	0.0	0.0	0.1	1.7	1.5	0.2	
Willow Flycatcher	28.5	377.9	0.6	1.5	3.4	1.6	0.7	2.0	0.0	4.9	0.1	0.0	0.0	0.6	0.0	2.1	0.9	11.6	
American Robin	15.8	221.5	0.5	1.3	1.9	1.0	1.3	1.1	0.2	7.7	0.1	0.0	0.0	0.3	0.0	1.2	0.5	5.8	
Red-tailed Hawk	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
Mallard Duck	1.6	5.0	0.2	0.2	0.3	0.2	0.4	0.6	0.0	13.9	0.0	0.0	0.0	0.1	0.0	0.0	0.1	3.1	
Great Blue Heron	0.0	0.8	0.0	0.1	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	

SUMMARY OF MODEL PARAMETERS

	Short-tailed Shrew	Raccoon	Willow Flycatcher	American Robin	Red-tailed Hawk	Mallard Duck	Great Blue Heron
Body Mass (kg)	1.5E-02	5.8E+00	1.3E-02	7.7E-02	1.1E+00	1.2E+00	2.4E+00
Food Intake (kg wet/d)	9.0E-03	1.2E+00	1.7E-02	9.3E-02	1.1E-01	1.3E-01	4.2E-01
Soil Intake (kg/d)	1.2E-03	2.7E-02	7.0E-05	1.9E-03	0.0E+00	2.6E-04	0.0E+00
Water Intake (L/d)	3.3E-03	4.8E-01	3.2E-03	1.1E-02	6.4E-02	6.6E-02	1.1E-01
Habitat Range (m2)	3.9E+03	1.6E+06	3.0E+03	4.2E+03	2.3E+06	4.0E+05	N/A
Habitat Factor	1.00	0.11	1.00	1.00	0.08	0.45	0.25
Dietary Preferences							
Plants	0.00	0.25	0.00	0.50	0.00	0.25	0.00
Soil Invertebrates	1.00	0.25	1.00	0.50	0.00	0.00	0.03
Small Mammals	0.00	0.25	0.00	0.00	1.00	0.00	0.03
Aquatic Insects	0.00	0.25	0.00	0.00	0.00	0.25	0.00
Fish	0.00	0.00	0.00	0.00	0.00	0.00	0.95
Sediment Benthos	0.00	0.00	0.00	0.00	0.00	0.50	0.00

CALCULATED DOSE AND SCREENING QUOTIENTS

Short-tailed Shrew		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Soil Invertebrates	2.1E+01	3.2E-02	2.0E-02	2.1E-01	1.5E-03	1.6E-02	3.4E-03	1.8E-02	1.2E-02	3.4E-02	7.7E-01	8.9E-05	4.2E-03	1.6E-03	2.6E-03	5.1E-03	6.6E-02	1.2E+00	
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment																			
	Water (mg/L)	9.9E-04	6.6E-06	1.2E-04	2.2E-04	1.4E-06	7.3E-06	3.6E-06	2.0E-05	1.1E-04	5.8E-04	1.3E-03	0.0E+00	7.2E-05	0.0E+00	0.0E+00	0.0E+00	6.6E-06	1.6E-03	
	Soil	1.3E+01	1.9E-02	2.4E-02	1.2E-01	8.9E-04	2.1E-03	4.4E-02	1.1E-02	3.9E-02	1.5E-01	4.5E-01	2.9E-04	2.7E-02	9.3E-04	1.5E-03	3.0E-03	3.9E-02	2.7E-01	
Total Ingested Dose (mg/d)		3.4E+01	5.1E-02	4.4E-02	3.3E-01	2.4E-03	1.8E-02	4.7E-02	2.8E-02	5.2E-02	1.8E-01	1.2E+00	3.8E-04	3.2E-02	2.5E-03	4.1E-03	8.2E-03	1.1E-01	1.4E+00	
Body Weight Adjusted Dose (mg/kg/day)		2.3E+03	3.4E+00	3.0E+00	2.2E+01	1.6E-01	1.2E+00	3.1E+00	1.9E+00	3.4E+00	1.2E+01	8.2E+01	2.5E-02	2.1E+00	1.7E-01	2.7E-01	5.4E-01	7.0E+00	9.6E+01	
Habitat-Adjusted Dose (mg/kg/day)		2.3E+03	3.4E+00	3.0E+00	2.2E+01	1.6E-01	1.2E+00	3.1E+00	1.9E+00	3.4E+00	1.2E+01	8.2E+01	2.5E-02	2.1E+00	1.7E-01	2.7E-01	5.4E-01	7.0E+00	9.6E+01	
NOAEL-based TRV (mg/kg/day)		2.3E+00	1.5E-01	1.5E-01	1.1E+01	1.5E+00	2.1E+00	7.2E+00	1.0E+01	3.3E+01	1.8E+01	1.9E+02	2.9E+00	8.8E+01	4.4E-01	4.5E-01	1.6E-02	4.3E-01	3.5E+02	
Screening Quotient		989.0	23.1	19.8	2.0	0.1	0.6	0.4	0.2	0.1	0.7	0.4	0.0	0.0	0.4	0.6	33.1	16.4	0.3	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.50E-02	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	9.00E-03	Sample and Suter (1994)		Soil Invertebrates	1.00	Sample and Suter (1994)
Soil Intake Rate (SIR; kg/d)	1.17E-03	Sample and Suter (1994)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	3.30E-03	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	3.90E+03	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Raccoon		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	1.3E+01	9.5E-02	2.1E-01	4.6E+00	2.2E-03	1.9E-01	8.1E-02	3.0E-02	3.9E+00	1.6E+00	1.3E+01	2.7E-03	2.2E-01	3.7E-03	1.5E-01	3.0E-03	5.3E-02	8.1E-11	
	Soil Invertebrates	6.9E+02	1.0E+00	6.6E-01	6.7E+00	4.9E-02	5.1E-01	1.1E-01	5.8E-01	3.9E-01	1.1E+00	2.5E+01	2.9E-03	1.4E-01	5.1E-02	8.3E-02	1.7E-01	2.1E+00	3.8E+01	
	Small Mammals	1.1E+02	5.6E-01	3.6E-02	5.2E-01	2.6E-02	1.4E+00	1.4E+00	2.8E-01	5.4E+00	6.9E+00	3.3E+00	9.0E-03	2.5E+00	8.3E-02	4.3E-02	8.5E-02	1.2E-01	1.0E+02	
	Aquatic Insects	3.5E+02	4.1E-03	7.9E-01	4.0E+00	5.4E-03	2.2E+00	9.6E-01	1.3E+01	3.7E+01	2.6E+02	8.5E+02	0.0E+00	1.8E-01	0.0E+00	0.0E+00	0.0E+00	4.2E+00	6.3E+02	
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Sediment																			
	Water (mg/L)	1.4E-01	9.5E-04	1.8E-02	3.2E-02	2.0E-04	1.0E-03	5.2E-04	2.9E-03	1.6E-02	8.4E-02	1.9E-01	0.0E+00	1.0E-02	0.0E+00	0.0E+00	0.0E+00	9.5E-04	2.3E-01	
	Soil	3.0E+02	4.5E-01	5.6E-01	2.9E+00	2.1E-02	5.0E-02	1.0E+00	2.5E-01	9.2E-01	3.4E+00	1.1E+01	6.8E-03	6.4E-01	2.2E-02	3.6E-02	7.1E-02	9.1E-01	6.3E+00	
Total Ingested Dose (mg/d)		1.5E+03	2.2E+00	2.3E+00	1.9E+01	1.0E-01	4.4E+00	3.6E+00	1.4E+01	4.7E+01	2.7E+02	9.0E+02	2.1E-02	3.7E+00	1.6E-01	3.1E-01	3.2E-01	7.4E+00	7.8E+02	
Body Weight Adjusted Dose (mg/kg/day)		2.5E+02	3.7E-01	3.9E-01	3.2E+00	1.8E-02	7.6E-01	6.2E-01	2.4E+00	8.2E+00	4.7E+01	1.6E+02	3.7E-03	6.4E-01	2.7E-02	5.4E-02	5.6E-02	1.3E+00	1.3E+02	
Habitat-Adjusted Dose (mg/kg/day)		2.9E+01	4.3E-02	4.5E-02	3.7E-01	2.1E-03	8.7E-02	7.0E-02	2.7E-01	9.3E-01	5.4E+00	1.8E+01	4.2E-04	7.3E-02	3.1E-03	6.2E-03	6.4E-03	1.5E-01	1.5E+01	
NOAEL-based TRV (mg/kg/day)		5.2E-01	3.4E-02	3.4E-02	2.5E+00	3.3E-01	4.8E-01	1.6E+00	1.0E+01	7.6E+00	4.0E+00	4.4E+01	6.5E-01	2.0E+01	9.9E-02	1.0E-01	3.7E-03	9.7E-02	7.9E+01	
Screening Quotient		55.9	1.3	1.3	0.1	0.0	0.2	0.0	0.0	0.1	1.4	0.4	0.0	0.0	0.0	0.1	1.7	1.5	0.2	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	5.78E+00	Average of values from USEPA (1993)	Dietary Preferences (%)	Plants	0.25	Omnivore, equal proportion of diet assumed
Food Intake Rate (FIR; kg wet/d)	1.16E+00	Allometric scaling, assumes food moisture content of 75%		Soil Invertebrates	0.25	Omnivore, equal proportion of diet assumed
Soil Intake Rate (SIR; kg/d)	2.73E-02	9.4% of dry weight FIR (USEPA, 1993).		Small Mammals	0.25	Omnivore, equal proportion of diet assumed
Water Intake Rate (WIR; L/d)	4.77E-01	Estimated using BW and average WIR from USEPA (1993)		Aquatic Insects	0.25	Omnivore, equal proportion of diet assumed
Habitat Range (m ²)	1.56E+06	Average of USEPA (1993) values for riparian habitat		Fish	0.00	Not consumed
Habitat Factor	0.114	Site area smaller than habitat range		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Willow Flycatcher		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Soil Invertebrates	4.0E+01	6.0E-02	3.8E-02	3.9E-01	2.8E-03	2.9E-02	6.2E-03	3.3E-02	2.2E-02	6.2E-02	1.4E+00	1.7E-04	7.8E-03	2.9E-03	4.8E-03	9.5E-03	1.2E-01	2.2E+00	
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment																			
	Water (mg/L)	9.6E-04	6.4E-06	1.2E-04	2.2E-04	1.3E-06	7.0E-06	3.5E-06	1.9E-05	1.1E-04	5.7E-04	1.3E-03	0.0E+00	7.0E-05	0.0E+00	0.0E+00	0.0E+00	6.4E-06	1.5E-03	
	Soil	7.6E-01	1.1E-03	1.4E-03	7.4E-03	5.4E-05	1.3E-04	2.6E-03	6.3E-04	2.4E-03	8.7E-03	2.7E-02	1.7E-05	1.6E-03	5.6E-05	9.1E-05	1.8E-04	2.3E-03	1.6E-02	
Total Ingested Dose (mg/d)		4.0E+01	6.1E-02	3.9E-02	3.9E-01	2.9E-03	3.0E-02	8.8E-03	3.4E-02	2.5E-02	7.2E-02	1.5E+00	1.8E-04	9.6E-03	3.0E-03	4.9E-03	9.7E-03	1.3E-01	2.2E+00	
Body Weight Adjusted Dose (mg/kg/day)		3.1E+03	4.7E+00	3.0E+00	3.1E+01	2.2E-01	2.3E+00	6.8E-01	2.6E+00	1.9E+00	5.5E+00	1.1E+02	1.4E-02	7.4E-01	2.3E-01	3.8E-01	7.5E-01	9.7E+00	1.7E+02	
Habitat-Adjusted Dose (mg/kg/day)		3.1E+03	4.7E+00	3.0E+00	3.1E+01	2.2E-01	2.3E+00	6.8E-01	2.6E+00	1.9E+00	5.5E+00	1.1E+02	1.4E-02	7.4E-01	2.3E-01	3.8E-01	7.5E-01	9.7E+00	1.7E+02	
NOAEL-based TRV (mg/kg/day)		1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
Screening Quotient		28.5	377.9	0.6	1.5	3.4	1.6	0.7	2.0	0.0	4.9	0.1	0.0	0.0	0.6	0.0	2.1	0.9	11.6	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.29E-02	Average of values from Cal/Ecotox (2003)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	1.67E-02	Allometric scaling, assumes food moisture content of 79%		Soil Invertebrates	1.00	Cal/Ecotox (2003)
Soil Intake Rate (SIR; kg/d)	7.01E-05	2% of dry food intake rate		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	3.20E-03	Allometric scaling		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	3.00E+03	Average of values from Cal/Ecotox (2003)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

American Robin		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	2.0E+00	1.5E-02	3.4E-02	7.4E-01	3.6E-04	3.1E-02	1.3E-02	4.8E-03	6.3E-01	2.6E-01	2.0E+00	4.3E-04	3.5E-02	5.9E-04	2.4E-02	4.8E-04	8.5E-03	1.3E-11	
	Soil Invertebrates	1.1E+02	1.7E-01	1.1E-01	1.1E+00	7.8E-03	8.2E-02	1.7E-02	9.2E-02	6.3E-02	1.7E-01	4.0E+00	4.6E-04	2.2E-02	8.1E-03	1.3E-02	2.6E-02	3.4E-01	6.0E+00	
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Sediment																			
	Water (mg/L)	3.2E-03	2.1E-05	3.9E-04	7.2E-04	4.3E-06	2.3E-05	1.2E-05	6.4E-05	3.6E-04	1.9E-03	4.3E-03	0.0E+00	2.3E-04	0.0E+00	0.0E+00	0.0E+00	2.1E-05	5.0E-03	
	Soil	2.1E+01	3.1E-02	3.9E-02	2.0E-01	1.5E-03	3.5E-03	7.1E-02	1.7E-02	6.4E-02	2.4E-01	7.4E-01	4.7E-04	4.5E-02	1.5E-03	2.5E-03	4.9E-03	6.3E-02	4.4E-01	
Total Ingested Dose (mg/d)		1.3E+02	2.1E-01	1.8E-01	2.0E+00	9.6E-03	1.2E-01	1.0E-01	1.1E-01	7.5E-01	6.7E-01	6.7E+00	1.4E-03	1.0E-01	1.0E-02	4.0E-02	3.2E-02	4.1E-01	6.5E+00	
Body Weight Adjusted Dose (mg/kg/day)		1.7E+03	2.8E+00	2.3E+00	2.6E+01	1.3E-01	1.5E+00	1.3E+00	1.5E+00	9.8E+00	8.7E+00	8.8E+01	1.8E-02	1.3E+00	1.3E-01	5.2E-01	4.1E-01	5.4E+00	8.4E+01	
Habitat-Adjusted Dose (mg/kg/day)		1.7E+03	2.8E+00	2.3E+00	2.6E+01	1.3E-01	1.5E+00	1.3E+00	1.5E+00	9.8E+00	8.7E+00	8.8E+01	1.8E-02	1.3E+00	1.3E-01	5.2E-01	4.1E-01	5.4E+00	8.4E+01	
NOAEL-based TRV (mg/kg/day)		1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
Screening Quotient		15.8	221.5	0.5	1.3	1.9	1.0	1.3	1.1	0.2	7.7	0.1	0.0	0.0	0.3	0.0	1.2	0.5	5.8	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	7.70E-02	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.50	Robins are opportunistic feeders, diet varies by season
Food Intake Rate (FIR; kg wet/d)	9.30E-02	Sample and Suter (1994)		Soil Invertebrates	0.50	Robins are opportunistic feeders, diet varies by season
Soil Intake Rate (SIR; kg/d)	1.90E-03	Sample and Suter (1994)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	1.06E-02	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	4.20E+03	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Red-tailed Hawk		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Soil Invertebrates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Small Mammals	4.3E+01	2.1E-01	1.3E-02	1.9E-01	9.9E-03	5.3E-01	5.2E-01	1.1E-01	2.0E+00	2.6E+00	1.2E+00	3.4E-03	9.4E-01	3.1E-02	1.6E-02	3.2E-02	4.4E-02	3.8E+01	
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment																			
	Water (mg/L)	1.9E-02	1.3E-04	2.4E-03	4.4E-03	2.6E-05	1.4E-04	7.0E-05	3.8E-04	2.2E-03	1.1E-02	2.6E-02	0.0E+00	1.4E-03	0.0E+00	0.0E+00	0.0E+00	1.3E-04	3.0E-02	
	Soil	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total Ingested Dose (mg/d)		4.3E+01	2.1E-01	1.6E-02	2.0E-01	9.9E-03	5.3E-01	5.2E-01	1.1E-01	2.0E+00	2.6E+00	1.3E+00	3.4E-03	9.4E-01	3.1E-02	1.6E-02	3.2E-02	4.4E-02	3.8E+01	
Body Weight Adjusted Dose (mg/kg/day)		3.8E+01	1.9E-01	1.4E-02	1.8E-01	8.8E-03	4.7E-01	4.6E-01	9.5E-02	1.8E+00	2.3E+00	1.1E+00	3.0E-03	8.3E-01	2.7E-02	1.4E-02	2.8E-02	3.9E-02	3.4E+01	
Habitat-Adjusted Dose (mg/kg/day)		2.9E+00	1.4E-02	1.1E-03	1.3E-02	6.7E-04	3.6E-02	3.5E-02	7.3E-03	1.4E-01	1.8E-01	8.6E-02	2.3E-04	6.4E-02	2.1E-03	1.1E-03	2.2E-03	3.0E-03	2.6E+00	
NOAEL-based TRV (mg/kg/day)		1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
Screening Quotient		0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.13E+00	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	1.09E-01	Sample and Suter (1994)		Soil Invertebrates	0.00	Not consumed
Soil Intake Rate (SIR; kg/d)	0.00E+00	Sample and Suter (1994): "assumed negligible"		Small Mammals	1.00	Sample and Suter (1994): "predominantly small mammals"
Water Intake Rate (WIR; L/d)	6.40E-02	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	2.33E+06	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	0.08	Site area smaller than habitat range		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Mallard Duck		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	1.4E+00	1.1E-02	2.4E-02	5.1E-01	2.5E-04	2.2E-02	9.1E-03	3.4E-03	4.4E-01	1.8E-01	1.4E+00	3.0E-04	2.4E-02	4.1E-04	1.7E-02	3.4E-04	6.0E-03	9.0E-12	
	Soil Invertebrates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Aquatic Insects	4.0E+01	4.6E-04	8.8E-02	4.4E-01	6.0E-04	2.5E-01	1.1E-01	1.4E+00	4.1E+00	2.9E+01	9.5E+01	0.0E+00	2.0E-02	0.0E+00	0.0E+00	0.0E+00	4.7E-01	7.1E+01	
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Sediment Benthos	4.1E+02	1.5E-01	3.2E+00	7.7E+00	5.4E-02	3.1E-01	8.0E-01	4.7E-01	1.1E+00	1.2E+01	2.4E+01	1.3E-03	3.2E+00	1.2E-01	5.7E-02	0.0E+00	1.6E+00	4.5E+01	
	Sediment	1.8E+00	6.8E-04	1.4E-02	3.4E-02	2.4E-04	3.6E-04	8.2E-03	2.1E-03	1.5E-02	7.5E-02	1.1E-01	7.8E-05	1.4E-02	5.2E-04	2.5E-04	0.0E+00	6.9E-03	3.1E-01	
	Water (mg/L)	2.0E-02	1.3E-04	2.4E-03	4.5E-03	2.7E-05	1.4E-04	7.2E-05	3.9E-04	2.2E-03	1.2E-02	2.6E-02	0.0E+00	1.4E-03	0.0E+00	0.0E+00	0.0E+00	1.3E-04	3.1E-02	
	Soil																			
Total Ingested Dose (mg/d)		4.5E+02	1.6E-01	3.3E+00	8.7E+00	5.5E-02	5.8E-01	9.3E-01	1.9E+00	5.7E+00	4.1E+01	1.2E+02	1.7E-03	3.2E+00	1.2E-01	7.4E-02	3.4E-04	2.0E+00	1.2E+02	
Body Weight Adjusted Dose (mg/kg/day)		3.9E+02	1.4E-01	2.8E+00	7.5E+00	4.7E-02	5.0E-01	8.0E-01	1.6E+00	4.9E+00	3.5E+01	1.0E+02	1.5E-03	2.8E+00	1.0E-01	6.4E-02	2.9E-04	1.8E+00	1.0E+02	
Habitat-Adjusted Dose (mg/kg/day)		1.7E+02	6.3E-02	1.3E+00	3.3E+00	2.1E-02	2.2E-01	3.5E-01	7.2E-01	2.2E+00	1.6E+01	4.6E+01	6.5E-04	1.2E+00	4.5E-02	2.8E-02	1.3E-04	7.8E-01	4.4E+01	
NOAEL-based TRV (mg/kg/day)		1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
Screening Quotient		1.6	5.0	0.2	0.2	0.3	0.2	0.4	0.6	0.0	13.9	0.0	0.0	0.0	0.1	0.0	0.0	0.1	3.1	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.16E+00	Average of adult weight provided in USEPA (1993)	Dietary Preferences (%)	Plants	0.25	Omnivore, eats seeds (USEPA, 1993)
Food Intake Rate (FIR; kg wet/d)	1.30E-01	Maximum adult FIR cited by Cal/Ecotox (2003)		Soil Invertebrates	0.00	Not consumed
Sediment Intake Rate (SIR; kg/d)	2.60E-04	2% of food intake (USEPA, 1993)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	6.56E-02	Estimated using BW and average WIR from USEPA (1993)		Aquatic Insects	0.25	Omnivore, eats insects (USEPA, 1993)
Habitat Range (m ²)	4.00E+05	Lowest habitat range from USEPA (1993)		Fish	0.00	Not consumed
Habitat Factor	0.4	Site area smaller than habitat range		Sediment Benthos	0.50	Omnivore, strains sediment for food (USEPA, 1993)
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.50	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Great Blue Heron		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Soil Invertebrates	2.5E+01	3.8E-02	2.4E-02	2.4E-01	1.8E-03	1.8E-02	3.9E-03	2.1E-02	1.4E-02	3.9E-02	9.0E-01	1.0E-04	4.9E-03	1.8E-03	3.0E-03	6.0E-03	7.7E-02	1.4E+00	
	Small Mammals	4.1E+00	2.0E-02	1.3E-03	1.9E-02	9.5E-04	5.1E-02	5.0E-02	1.0E-02	1.9E-01	2.5E-01	1.2E-01	3.2E-04	9.0E-02	3.0E-03	1.5E-03	3.1E-03	4.2E-03	3.7E+00	
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Fish	3.2E-01	3.2E-02	1.7E+00	1.7E+01	1.0E-02	8.0E-01	8.3E-03	4.4E+00	9.6E+00	6.4E-03	3.0E+02	0.0E+00	6.8E-01	0.0E+00	0.0E+00	0.0E+00	1.5E+00	3.9E+02	
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sediment	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Water (mg/L)	3.2E-02	2.1E-04	3.9E-03	7.2E-03	4.3E-05	2.3E-04	1.2E-04	6.3E-04	3.6E-03	1.9E-02	4.3E-02	0.0E+00	2.3E-03	0.0E+00	0.0E+00	0.0E+00	2.1E-04	5.0E-02	
Soil																				
Total Ingested Dose (mg/d)		2.9E+01	9.0E-02	1.7E+00	1.7E+01	1.3E-02	8.7E-01	6.3E-02	4.5E+00	9.8E+00	3.1E-01	3.0E+02	4.3E-04	7.8E-01	4.8E-03	4.5E-03	9.0E-03	1.6E+00	4.0E+02	
Body Weight Adjusted Dose (mg/kg/day)		1.2E+01	3.8E-02	7.2E-01	7.3E+00	5.4E-03	3.6E-01	2.6E-02	1.9E+00	4.1E+00	1.3E-01	1.2E+02	1.8E-04	3.3E-01	2.0E-03	1.9E-03	3.8E-03	6.5E-01	1.7E+02	
Habitat-Adjusted Dose (mg/kg/day)		3.1E+00	9.4E-03	1.8E-01	1.8E+00	1.3E-03	9.1E-02	6.6E-03	4.7E-01	1.0E+00	3.3E-02	3.1E+01	4.5E-05	8.1E-02	5.0E-04	4.8E-04	9.5E-04	1.6E-01	4.1E+01	
NOAEL-based TRV (mg/kg/day)		1.1E+02	1.3E-02	5.1E+00	2.1E+01	6.6E-02	1.5E+00	1.0E+00	1.3E+00	4.7E+01	1.1E+00	9.8E+02	4.5E-01	7.7E+01	4.0E-01	1.8E+02	3.5E-01	1.1E+01	1.4E+01	
Screening Quotient		0.0	0.8	0.0	0.1	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	2.39E+00	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	4.20E-01	Sample and Suter (1994)		Soil Invertebrates	0.025	Sample and Suter (1994): "may include insects, snails"
Sediment Intake Rate (SIR; kg/d)	0.00E+00	Piscivorous birds have negligble soil/sediment uptake		Small Mammals	0.025	Sample and Suter (1994): "may include birds, mammals:
Water Intake Rate (WIR; L/d)	1.06E-01	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	N/A	Sample and Suter (1994): "up to 24.2 km river"		Fish	0.95	Sample and Suter (1994): "predominantly fish"
Habitat Factor	0.3	Assumed to spend 25% of time on site		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



TOXICITY REFERENCE VALUES FOR SELECTED COPCS (MG/KG/DAY)

NOAEL-based TRV	4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol						
Short-tailed Shrew	1.8E+00	1.8E+00	1.8E+00	No data	4.3E-02	4.3E-02	No data	1.4E+02	No data	4.4E-02	6.5E+02	8.8E+00	5.3E-01						
Raccoon	4.0E-01	4.0E-01	4.0E-01	No data	9.6E-03	9.6E-03	No data	3.2E+01	No data	9.9E-03	1.5E+02	2.0E+00	1.2E-01						
Willow Flycatcher	2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						
American Robin	2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						
Red-tailed Hawk	2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						
Mallard Duck	2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						
Great Blue Heron	2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						

ENVIRONMENTAL CONCENTRATIONS FOR SELECTED COPCS (MG/KG)

Plants	1.4E-01	1.3E-02	7.2E-02	9.3E-01	3.2E-02	1.9E-03	6.1E-01	1.5E-01	9.0E-02	2.8E-03	3.4E-01	3.5E-02	2.3E-01						
Soil Invertebrates	1.5E+01	1.7E+00	1.4E+01	1.0E+00	3.2E+00	5.4E-01	6.5E+03	1.5E+00	1.1E+02	1.6E+02	1.7E+03	8.1E+02	5.4E+03						
Small Mammals	1.2E+01	1.4E+00	1.1E+01	3.4E-01	2.8E+00	4.8E-01	9.9E+00	1.4E+00	6.0E-01	9.2E-02	4.1E+00	7.9E-01	5.2E+00						
Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.1E+00	0.0E+00	0.0E+00	5.5E+00	0.0E+00	0.0E+00						
Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E+00	0.0E+00	0.0E+00	3.3E+01	0.0E+00	0.0E+00						
Sediment Benthos	5.6E+00	3.5E+00	7.2E+01	1.2E+01	4.1E-02	5.8E-02	1.1E+03	4.0E-01	1.2E+02	8.2E+00	0.0E+00	0.0E+00	0.0E+00						
Sediment	5.9E+00	3.7E+00	7.6E+01	3.9E+00	7.8E-02	1.1E-01	1.6E+00	4.4E-01	6.7E-01	4.6E-03	0.0E+00	0.0E+00	0.0E+00						
Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E-03	0.0E+00	0.0E+00	1.3E-02	0.0E+00	0.0E+00						
Soil	1.2E+01	1.4E+00	1.1E+01	3.4E-01	2.8E+00	4.8E-01	9.9E+00	1.4E+00	6.0E-01	9.2E-02	4.1E+00	7.9E-01	5.2E+00						

BIOACCUMULATION/BIOCONCENTRATION FACTORS

Soil to Plant	1.2E-02	9.4E-03	6.5E-03	2.7E+00	1.1E-02	3.9E-03	6.2E-02	1.1E-01	1.5E-01	3.0E-02	8.4E-02	4.5E-02	4.5E-02						
Soil to Invertebrate	1.3E+00	1.3E+00	1.3E+00	3.0E+00	1.1E+00	1.1E+00	6.6E+02	1.1E+00	1.9E+02	1.8E+03	4.3E+02	1.0E+03	1.0E+03						
Soil to Small Mammal	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00						
Water to Aquatic Insect	7.1E+03	1.2E+04	1.6E+04	3.0E+00	7.2E+03	3.3E+04	6.6E+02	4.1E+03	1.9E+02	1.8E+03	4.3E+02	1.0E+03	5.2E+01						
Water to Fish	5.8E+04	2.6E+04	1.4E+05	1.1E+01	5.9E+04	3.2E+05	4.2E+03	6.3E+02	1.0E+03	1.3E+04	2.6E+03	6.9E+03	1.1E+02						
Sediment to Invertebrate	9.5E-01	9.5E-01	9.5E-01	3.0E+00	5.3E-01	5.3E-01	6.6E+02	9.0E-01	1.9E+02	1.8E+03	4.3E+02	1.0E+03	1.0E+03						

SUMMARY OF SCREENING QUOTIENTS

NOAEL-based TRV	4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol						
Short-tailed Shrew	5.7	0.7	5.3		49.5	8.4		0.0		2244	1.6	55.4	6116.8						
Raccoon	0.4	0.0	0.4		3.7	0.6		0.0		94.8	0.1	2.3	258.6						
Willow Flycatcher	7015.3	801.4	6469.8		22.8	3.9		49.6		2755.7	20306.5	2619.6	1722.4						
American Robin	3406.8	388.6	3129.9		11.1	1.9		26.3		1289.2	9502.0	1225.5	805.8						
Red-tailed Hawk	31.8	3.6	29.3		0.1	0.0		0.3		0.0	0.3	0.0	0.0						
Mallard Duck	50.7	31.5	645.4		0.0	0.0		2.8		2.7	0.7	0.0	0.0						
Great Blue Heron	10.7	1.2	9.8		0.0	0.0		1.4		2.3	30.0	2.2	1.5						

SUMMARY OF MODEL PARAMETERS

	Short-tailed Shrew	Raccoon	Willow Flycatcher	American Robin	Red-tailed Hawk	Mallard Duck	Great Blue Heron
Body Mass (kg)	1.5E-02	5.8E+00	1.3E-02	7.7E-02	1.1E+00	1.2E+00	2.4E+00
Food Intake (kg wet/d)	9.0E-03	1.2E+00	1.7E-02	9.3E-02	1.1E-01	1.3E-01	4.2E-01
Soil Intake (kg/d)	1.2E-03	2.7E-02	7.0E-05	1.9E-03	0.0E+00	2.6E-04	0.0E+00
Water Intake (L/d)	3.3E-03	4.8E-01	3.2E-03	1.1E-02	6.4E-02	6.6E-02	1.1E-01
Habitat Range (m2)	3.9E+03	1.6E+06	3.0E+03	4.2E+03	2.3E+06	4.0E+05	N/A
Habitat Factor	1.00	0.11	1.00	1.00	0.08	0.45	0.25
Dietary Preferences							
Plants	0.00	0.25	0.00	0.50	0.00	0.25	0.00
Soil Invertebrates	1.00	0.25	1.00	0.50	0.00	0.00	0.03
Small Mammals	0.00	0.25	0.00	0.00	1.00	0.00	0.03
Aquatic Insects	0.00	0.25	0.00	0.00	0.00	0.25	0.00
Fish	0.00	0.00	0.00	0.00	0.00	0.00	0.95
Sediment Benthos	0.00	0.00	0.00	0.00	0.00	0.50	0.00

CALCULATED DOSE AND SCREENING QUOTIENTS

Short-tailed Shrew		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol					
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Soil Invertebrates	1.4E-01	1.6E-02	1.3E-01	9.3E-03	2.8E-02	4.9E-03	5.9E+01	1.4E-02	1.0E+00	1.5E+00	1.6E+01	7.3E+00	4.8E+01					
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment																		
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.6E-06	0.0E+00	0.0E+00	4.3E-05	0.0E+00	0.0E+00					
	Soil	1.4E-02	1.6E-03	1.3E-02	4.0E-04	3.3E-03	5.6E-04	1.2E-02	1.6E-03	7.0E-04	1.1E-04	4.8E-03	9.2E-04	6.1E-03					
Total Ingested Dose (mg/d)		1.5E-01	1.7E-02	1.4E-01	9.7E-03	3.2E-02	5.4E-03	5.9E+01	1.5E-02	1.0E+00	1.5E+00	1.6E+01	7.3E+00	4.8E+01					
Body Weight Adjusted Dose (mg/kg/day)		1.0E+01	1.1E+00	9.3E+00	6.5E-01	2.1E+00	3.6E-01	3.9E+03	1.0E+00	6.7E+01	9.9E+01	1.0E+03	4.9E+02	3.2E+03					
Habitat-Adjusted Dose (mg/kg/day)		1.0E+01	1.1E+00	9.3E+00	6.5E-01	2.1E+00	3.6E-01	3.9E+03	1.0E+00	6.7E+01	9.9E+01	1.0E+03	4.9E+02	3.2E+03					
NOAEL-based TRV (mg/kg/day)		1.8E+00	1.8E+00	1.8E+00	No data	4.3E-02	4.3E-02	No data	1.4E+02	No data	4.4E-02	6.5E+02	8.8E+00	5.3E-01					
Screening Quotient		5.7	0.7	5.3		49.5	8.4		0.0		2243.8	1.6	55.4	6116.8					

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.50E-02	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	9.00E-03	Sample and Suter (1994)		Soil Invertebrates	1.00	Sample and Suter (1994)
Soil Intake Rate (SIR; kg/d)	1.17E-03	Sample and Suter (1994)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	3.30E-03	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	3.90E+03	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Raccoon		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol					
Dose (mg/d)	Plants	4.0E-02	3.7E-03	2.1E-02	2.7E-01	9.2E-03	5.4E-04	1.8E-01	4.5E-02	2.6E-02	8.1E-04	9.9E-02	1.0E-02	6.8E-02					
	Soil Invertebrates	4.4E+00	5.0E-01	4.1E+00	3.0E-01	9.2E-01	1.6E-01	1.9E+03	4.4E-01	3.2E+01	4.8E+01	5.0E+02	2.4E+02	1.6E+03					
	Small Mammals	3.5E+00	4.0E-01	3.2E+00	9.9E-02	8.1E-01	1.4E-01	2.9E+00	4.0E-01	1.7E-01	2.7E-02	1.2E+00	2.3E-01	1.5E+00					
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.4E+00	0.0E+00	0.0E+00	1.6E+00	0.0E+00	0.0E+00					
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment																		
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.5E-04	0.0E+00	0.0E+00	6.2E-03	0.0E+00	0.0E+00					
	Soil	3.3E-01	3.8E-02	3.0E-01	9.3E-03	7.7E-02	1.3E-02	2.7E-01	3.7E-02	1.6E-02	2.5E-03	1.1E-01	2.1E-02	1.4E-01					
Total Ingested Dose (mg/d)		8.2E+00	9.4E-01	7.6E+00	6.8E-01	1.8E+00	3.1E-01	1.9E+03	3.3E+00	3.3E+01	4.8E+01	5.0E+02	2.4E+02	1.6E+03					
Body Weight Adjusted Dose (mg/kg/day)		1.4E+00	1.6E-01	1.3E+00	1.2E-01	3.1E-01	5.3E-02	3.3E+02	5.7E-01	5.6E+00	8.2E+00	8.7E+01	4.1E+01	2.7E+02					
Habitat-Adjusted Dose (mg/kg/day)		1.6E-01	1.9E-02	1.5E-01	1.3E-02	3.6E-02	6.1E-03	3.7E+01	6.5E-02	6.4E-01	9.4E-01	1.0E+01	4.6E+00	3.1E+01					
NOAEL-based TRV (mg/kg/day)		4.0E-01	4.0E-01	4.0E-01	No data	9.6E-03	9.6E-03	No data	3.2E+01	No data	9.9E-03	1.5E+02	2.0E+00	1.2E-01					
Screening Quotient		0.4	0.0	0.4		3.7	0.6		0.0		94.8	0.1	2.3	258.6					

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	5.78E+00	Average of values from USEPA (1993)	Dietary Preferences (%)	Plants	0.25	Omnivore, equal proportion of diet assumed
Food Intake Rate (FIR; kg wet/d)	1.16E+00	Allometric scaling, assumes food moisture content of 75%		Soil Invertebrates	0.25	Omnivore, equal proportion of diet assumed
Soil Intake Rate (SIR; kg/d)	2.73E-02	9.4% of dry weight FIR (USEPA, 1993).		Small Mammals	0.25	Omnivore, equal proportion of diet assumed
Water Intake Rate (WIR; L/d)	4.77E-01	Estimated using BW and average WIR from USEPA (1993)		Aquatic Insects	0.25	Omnivore, equal proportion of diet assumed
Habitat Range (m ²)	1.56E+06	Average of USEPA (1993) values for riparian habitat		Fish	0.00	Not consumed
Habitat Factor	0.114	Site area smaller than habitat range		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Willow Flycatcher		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol					
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Soil Invertebrates	2.5E-01	2.9E-02	2.3E-01	1.7E-02	5.3E-02	9.0E-03	1.1E+02	2.6E-02	1.9E+00	2.7E+00	2.9E+01	1.4E+01	9.0E+01					
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment																		
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.4E-06	0.0E+00	0.0E+00	4.2E-05	0.0E+00	0.0E+00					
	Soil	8.4E-04	9.6E-05	7.8E-04	2.4E-05	2.0E-04	3.3E-05	6.9E-04	9.6E-05	4.2E-05	6.5E-06	2.8E-04	5.5E-05	3.6E-04					
Total Ingested Dose (mg/d)		2.5E-01	2.9E-02	2.3E-01	1.7E-02	5.3E-02	9.0E-03	1.1E+02	2.6E-02	1.9E+00	2.7E+00	2.9E+01	1.4E+01	9.0E+01					
Body Weight Adjusted Dose (mg/kg/day)		2.0E+01	2.2E+00	1.8E+01	1.3E+00	4.1E+00	7.0E-01	8.4E+03	2.0E+00	1.4E+02	2.1E+02	2.2E+03	1.0E+03	6.9E+03					
Habitat-Adjusted Dose (mg/kg/day)		2.0E+01	2.2E+00	1.8E+01	1.3E+00	4.1E+00	7.0E-01	8.4E+03	2.0E+00	1.4E+02	2.1E+02	2.2E+03	1.0E+03	6.9E+03					
NOAEL-based TRV (mg/kg/day)		2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00					
Screening Quotient		7015.3	801.4	6469.8		22.8	3.9		49.6		2755.7	20306.5	2619.6	1722.4					

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.29E-02	Average of values from Cal/Ecotox (2003)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	1.67E-02	Allometric scaling, assumes food moisture content of 79%		Soil Invertebrates	1.00	Cal/Ecotox (2003)
Soil Intake Rate (SIR; kg/d)	7.01E-05	2% of dry food intake rate		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	3.20E-03	Allometric scaling		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	3.00E+03	Average of values from Cal/Ecotox (2003)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

American Robin		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol						
Dose (mg/d)	Plants	6.5E-03	6.0E-04	3.4E-03	4.3E-02	1.5E-03	8.7E-05	2.8E-02	7.2E-03	4.2E-03	1.3E-04	1.6E-02	1.6E-03	1.1E-02						
	Soil Invertebrates	7.1E-01	8.1E-02	6.5E-01	4.8E-02	1.5E-01	2.5E-02	3.0E+02	7.1E-02	5.2E+00	7.6E+00	8.0E+01	3.8E+01	2.5E+02						
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.1E-05	0.0E+00	0.0E+00	1.4E-04	0.0E+00	0.0E+00						
	Soil	2.3E-02	2.6E-03	2.1E-02	6.5E-04	5.3E-03	9.1E-04	1.9E-02	2.6E-03	1.1E-03	1.7E-04	7.7E-03	1.5E-03	9.9E-03						
Total Ingested Dose (mg/d)		7.3E-01	8.4E-02	6.7E-01	9.2E-02	1.5E-01	2.6E-02	3.0E+02	8.1E-02	5.2E+00	7.6E+00	8.0E+01	3.8E+01	2.5E+02						
Body Weight Adjusted Dose (mg/kg/day)		9.5E+00	1.1E+00	8.8E+00	1.2E+00	2.0E+00	3.4E-01	3.9E+03	1.1E+00	6.7E+01	9.9E+01	1.0E+03	4.9E+02	3.2E+03						
Habitat-Adjusted Dose (mg/kg/day)		9.5E+00	1.1E+00	8.8E+00	1.2E+00	2.0E+00	3.4E-01	3.9E+03	1.1E+00	6.7E+01	9.9E+01	1.0E+03	4.9E+02	3.2E+03						
NOAEL-based TRV (mg/kg/day)		2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						
Screening Quotient		3406.8	388.6	3129.9		11.1	1.9		26.3		1289.2	9502.0	1225.5	805.8						

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	7.70E-02	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.50	Robins are opportunistic feeders, diet varies by season
Food Intake Rate (FIR; kg wet/d)	9.30E-02	Sample and Suter (1994)		Soil Invertebrates	0.50	Robins are opportunistic feeders, diet varies by season
Soil Intake Rate (SIR; kg/d)	1.90E-03	Sample and Suter (1994)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	1.06E-02	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	4.20E+03	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Red-tailed Hawk		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol						
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Soil Invertebrates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Small Mammals	1.3E+00	1.5E-01	1.2E+00	3.7E-02	3.1E-01	5.2E-02	1.1E+00	1.5E-01	6.5E-02	1.0E-02	4.4E-01	8.6E-02	5.7E-01						
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E-04	0.0E+00	0.0E+00	8.3E-04	0.0E+00	0.0E+00						
	Soil	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00						
Total Ingested Dose (mg/d)		1.3E+00	1.5E-01	1.2E+00	3.7E-02	3.1E-01	5.2E-02	1.1E+00	1.5E-01	6.5E-02	1.0E-02	4.4E-01	8.6E-02	5.7E-01						
Body Weight Adjusted Dose (mg/kg/day)		1.2E+00	1.3E-01	1.1E+00	3.3E-02	2.7E-01	4.6E-02	9.6E-01	1.3E-01	5.8E-02	8.9E-03	3.9E-01	7.6E-02	5.0E-01						
Habitat-Adjusted Dose (mg/kg/day)		8.9E-02	1.0E-02	8.2E-02	2.5E-03	2.1E-02	3.5E-03	7.3E-02	1.0E-02	4.4E-03	6.8E-04	3.0E-02	5.8E-03	3.8E-02						
NOAEL-based TRV (mg/kg/day)		2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00						
Screening Quotient		31.8	3.6	29.3		0.1	0.0		0.3		0.0	0.3	0.0	0.0						

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.13E+00	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	1.09E-01	Sample and Suter (1994)		Soil Invertebrates	0.00	Not consumed
Soil Intake Rate (SIR; kg/d)	0.00E+00	Sample and Suter (1994): "assumed negligible"		Small Mammals	1.00	Sample and Suter (1994): "predominantly small mammals"
Water Intake Rate (WIR; L/d)	6.40E-02	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	2.33E+06	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	0.08	Site area smaller than habitat range		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Mallard Duck		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol					
Dose (mg/d)	Plants	4.5E-03	4.2E-04	2.3E-03	3.0E-02	1.0E-03	6.1E-05	2.0E-02	5.0E-03	2.9E-03	9.1E-05	1.1E-02	1.1E-03	7.6E-03					
	Soil Invertebrates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-01	0.0E+00	0.0E+00	1.8E-01	0.0E+00	0.0E+00					
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment Benthos	3.6E-01	2.3E-01	4.7E+00	7.7E-01	2.7E-03	3.8E-03	6.8E+01	2.6E-02	8.1E+00	5.3E-01	0.0E+00	0.0E+00	0.0E+00					
	Sediment	1.5E-03	9.6E-04	2.0E-02	1.0E-03	2.0E-05	2.9E-05	4.2E-04	1.1E-04	1.7E-04	1.2E-06	0.0E+00	0.0E+00	0.0E+00					
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E-04	0.0E+00	0.0E+00	8.5E-04	0.0E+00	0.0E+00					
Soil																			
Total Ingested Dose (mg/d)		3.7E-01	2.3E-01	4.7E+00	8.0E-01	3.7E-03	3.9E-03	6.8E+01	3.0E-01	8.1E+00	5.3E-01	1.9E-01	1.1E-03	7.6E-03					
Body Weight Adjusted Dose (mg/kg/day)		3.2E-01	2.0E-01	4.1E+00	6.9E-01	3.2E-03	3.3E-03	5.9E+01	2.5E-01	7.0E+00	4.6E-01	1.7E-01	9.9E-04	6.5E-03					
Habitat-Adjusted Dose (mg/kg/day)		1.4E-01	8.8E-02	1.8E+00	3.1E-01	1.4E-03	1.5E-03	2.6E+01	1.1E-01	3.1E+00	2.0E-01	7.4E-02	4.4E-04	2.9E-03					
NOAEL-based TRV (mg/kg/day)		2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00					
Screening Quotient		50.7	31.5	645.4		0.0	0.0		2.8		2.7	0.7	0.0	0.0					

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.16E+00	Average of adult weight provided in USEPA (1993)	Dietary Preferences (%)	Plants	0.25	Omnivore, eats seeds (USEPA, 1993)
Food Intake Rate (FIR; kg wet/d)	1.30E-01	Maximum adult FIR cited by Cal/Ecotox (2003)		Soil Invertebrates	0.00	Not consumed
Sediment Intake Rate (SIR; kg/d)	2.60E-04	2% of food intake (USEPA, 1993)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	6.56E-02	Estimated using BW and average WIR from USEPA (1993)		Aquatic Insects	0.25	Omnivore, eats insects (USEPA, 1993)
Habitat Range (m ²)	4.00E+05	Lowest habitat range from USEPA (1993)		Fish	0.00	Not consumed
Habitat Factor	0.4	Site area smaller than habitat range		Sediment Benthos	0.50	Omnivore, strains sediment for food (USEPA, 1993)
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.50	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Great Blue Heron		4,4'-DDD	4,4'-DDE	4,4'-DDT	4-Methylphenol	Aroclor 1248	Aroclor 1260	Butylbenzylphthalate	Cyanide	Dibenzofuran	Dieldrin	Di-n-butylphthalate	Methoxychlor	Pentachlorophenol					
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Soil Invertebrates	1.6E-01	1.8E-02	1.5E-01	1.1E-02	3.3E-02	5.7E-03	6.8E+01	1.6E-02	1.2E+00	1.7E+00	1.8E+01	8.5E+00	5.6E+01					
	Small Mammals	1.3E-01	1.4E-02	1.2E-01	3.6E-03	2.9E-02	5.0E-03	1.0E-01	1.4E-02	6.3E-03	9.7E-04	4.3E-02	8.2E-03	5.5E-02					
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.1E-01	0.0E+00	0.0E+00	1.3E+01	0.0E+00	0.0E+00					
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Sediment	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.1E-04	0.0E+00	0.0E+00	1.4E-03	0.0E+00	0.0E+00					
	Soil																		
Total Ingested Dose (mg/d)		2.9E-01	3.3E-02	2.6E-01	1.4E-02	6.3E-02	1.1E-02	6.8E+01	5.4E-01	1.2E+00	1.7E+00	3.2E+01	8.5E+00	5.7E+01					
Body Weight Adjusted Dose (mg/kg/day)		1.2E-01	1.4E-02	1.1E-01	6.0E-03	2.6E-02	4.5E-03	2.9E+01	2.2E-01	4.9E-01	7.2E-01	1.3E+01	3.6E+00	2.4E+01					
Habitat-Adjusted Dose (mg/kg/day)		3.0E-02	3.4E-03	2.8E-02	1.5E-03	6.6E-03	1.1E-03	7.2E+00	5.6E-02	1.2E-01	1.8E-01	3.3E+00	8.9E-01	5.9E+00					
NOAEL-based TRV (mg/kg/day)		2.8E-03	2.8E-03	2.8E-03	No data	1.8E-01	1.8E-01	No data	4.0E-02	No data	7.7E-02	1.1E-01	4.0E-01	4.0E+00					
Screening Quotient		10.7	1.2	9.8		0.0	0.0		1.4		2.3	30.0	2.2	1.5					

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	2.39E+00	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	4.20E-01	Sample and Suter (1994)		Soil Invertebrates	0.025	Sample and Suter (1994): "may include insects, snails"
Sediment Intake Rate (SIR; kg/d)	0.00E+00	Piscivorous birds have negligible soil/sediment uptake		Small Mammals	0.025	Sample and Suter (1994): "may include birds, mammals"
Water Intake Rate (WIR; L/d)	1.06E-01	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	N/A	Sample and Suter (1994): "up to 24.2 km river"		Fish	0.95	Sample and Suter (1994): "predominantly fish"
Habitat Factor	0.25	Assumed to spend 25% of time on site		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



TOXICITY REFERENCE VALUES FOR SELECTED COPCS (MG/KG/DAY)

NOAEL-based TRV		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
	Short-tailed Shrew	1.2E+00	1.2E+00	1.2E+00	2.1E-01	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	4.4E-03	1.2E+00	1.2E+00	1.2E+00	1.1E+02	1.2E+00	1.2E+00			
	Raccoon	2.7E-01	2.7E-01	2.7E-01	4.7E-02	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	9.9E-04	2.7E-01	2.7E-01	2.7E-01	2.5E+01	2.7E-01	2.7E-01			
	Willow Flycatcher	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
	American Robin	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
	Red-tailed Hawk	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
	Mallard Duck	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
	Great Blue Heron	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			

ENVIRONMENTAL CONCENTRATIONS FOR SELECTED COPCS (MG/KG)

	Plants	2.3E-01	1.9E-01	1.4E-01	6.5E-02	0.0E+00	6.4E-02	6.7E-03	9.3E-03	5.8E-02	5.9E-03	3.3E-01	1.4E-01	6.0E-03	6.4E-01	2.4E-01	1.8E-01			
	Soil Invertebrates	8.8E-02	8.6E-02	1.2E-01	9.6E-02	3.0E-01	4.4E-01	1.6E-01	7.4E-02	1.2E-01	6.5E-02	6.2E-01	8.0E-02	1.2E-01	1.2E-01	1.9E-01	3.3E-01			
	Small Mammals	1.1E+00	1.1E+00	1.6E+00	3.2E+00	4.2E+00	6.3E+00	2.0E+00	9.2E-01	3.1E+00	9.2E-01	7.7E+00	1.0E+00	1.5E+00	1.4E+00	2.3E+00	4.1E+00			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	1.4E+00	0.0E+00	5.2E+00	8.1E+00	8.9E+00	7.7E+00	3.2E+00	8.1E+00	7.2E+00	1.5E+00	1.9E+01	1.4E+00	4.0E+00	1.9E-01	1.6E+01	1.7E+01			
	Sediment	8.9E-01	0.0E+00	3.3E+00	5.6E+00	5.6E+00	4.8E+00	2.0E+00	5.0E+00	5.2E+00	9.4E-01	1.2E+01	8.6E-01	2.5E+00	1.2E-01	1.0E+01	1.1E+01			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil	1.1E+00	1.1E+00	1.6E+00	3.2E+00	4.2E+00	6.3E+00	2.0E+00	9.2E-01	3.1E+00	9.2E-01	7.7E+00	1.0E+00	1.5E+00	1.4E+00	2.3E+00	4.1E+00			

BIOACCUMULATION/BIOCONCENTRATION FACTORS

Soil to Plant	2.1E-01	1.7E-01	9.1E-02	2.0E-02	0.0E+00	1.0E-02	3.4E-03	1.0E-02	1.9E-02	6.4E-03	4.3E-02	1.4E-01	3.9E-03	4.4E-01	1.0E-01	4.3E-02			
Soil to Invertebrate	8.0E-02	8.0E-02	8.0E-02	3.0E-02	7.0E-02	7.0E-02	8.0E-02	8.0E-02	4.0E-02	7.0E-02	8.0E-02	8.0E-02	8.0E-02	8.0E-02	8.0E-02	8.0E-02			
Soil to Small Mammal	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00			
Water to Aquatic Insect	1.2E+02	1.5E+02	3.8E+02	1.2E+04	4.7E+03	4.7E+03	3.9E+04	1.3E+04	9.8E+02	7.1E+02	1.1E+03	2.0E+02	4.7E+03	4.0E+01	3.2E+02	1.1E+03			
Water to Fish	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02	5.0E+02			
Sediment to Invertebrate	1.6E+00	1.6E+00	1.6E+00	1.5E+00	1.6E+00	1.6E+00	1.6E+00	1.6E+00	1.4E+00	1.6E+00	1.6E+00	1.6E+00	1.6E+00	1.6E+00	1.6E+00	1.6E+00			

SUMMARY OF SCREENING QUOTIENTS

NOAEL-based TRV	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Short-tailed Shrew	0.1	0.1	0.2	1.5	0.4	0.6	0.2	0.1	0.3	25	0.8	0.1	0.2	0.0	0.2	0.4			
Raccoon	0.0	0.0	0.0	0.4	0.1	0.2	0.0	0.0	0.1	6.2	0.2	0.0	0.0	0.0	0.1	0.1			
Willow Flycatcher	1.2	1.2	1.7	1.4	4.1	6.0	2.1	1.0	1.8	0.9	8.4	1.1	1.7	1.6	2.5	4.4			
American Robin	2.2	1.9	2.0	1.8	2.8	4.6	1.5	0.7	1.9	0.7	7.6	1.6	1.2	4.9	3.2	4.0			
Red-tailed Hawk	0.1	0.1	0.1	0.2	0.3	0.5	0.1	0.1	0.2	0.1	0.6	0.1	0.1	0.1	0.2	0.3			
Mallard Duck	0.4	0.0	1.3	2.0	2.2	1.9	0.8	2.0	1.8	0.4	4.8	0.4	1.0	0.1	4.0	4.4			
Great Blue Heron	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0			

SUMMARY OF MODEL PARAMETERS

	Short-tailed Shrew	Raccoon	Willow Flycatcher	American Robin	Red-tailed Hawk	Mallard Duck	Great Blue Heron
Body Mass (kg)	1.5E-02	5.8E+00	1.3E-02	7.7E-02	1.1E+00	1.2E+00	2.4E+00
Food Intake (kg wet/d)	9.0E-03	1.2E+00	1.7E-02	9.3E-02	1.1E-01	1.3E-01	4.2E-01
Soil Intake (kg/d)	1.2E-03	2.7E-02	7.0E-05	1.9E-03	0.0E+00	2.6E-04	0.0E+00
Water Intake (L/d)	3.3E-03	4.8E-01	3.2E-03	1.1E-02	6.4E-02	6.6E-02	1.1E-01
Habitat Range (m2)	3.9E+03	1.6E+06	3.0E+03	4.2E+03	2.3E+06	4.0E+05	N/A
Habitat Factor	1.00	0.11	1.00	1.00	0.08	0.45	0.25
Dietary Preferences							
Plants	0.00	0.25	0.00	0.50	0.00	0.25	0.00
Soil Invertebrates	1.00	0.25	1.00	0.50	0.00	0.00	0.03
Small Mammals	0.00	0.25	0.00	0.00	1.00	0.00	0.03
Aquatic Insects	0.00	0.25	0.00	0.00	0.00	0.25	0.00
Fish	0.00	0.00	0.00	0.00	0.00	0.00	0.95
Sediment Benthos	0.00	0.00	0.00	0.00	0.00	0.50	0.00

CALCULATED DOSE AND SCREENING QUOTIENTS

Short-tailed Shrew		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil Invertebrates	7.9E-04	7.8E-04	1.1E-03	8.7E-04	2.7E-03	4.0E-03	1.4E-03	6.6E-04	1.1E-03	5.8E-04	5.6E-03	7.2E-04	1.1E-03	1.0E-03	1.7E-03	2.9E-03			
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil	1.3E-03	1.3E-03	1.8E-03	3.8E-03	5.0E-03	7.4E-03	2.3E-03	1.1E-03	3.6E-03	1.1E-03	9.0E-03	1.2E-03	1.8E-03	1.7E-03	2.7E-03	4.8E-03			
Total Ingested Dose (mg/d)		2.1E-03	2.0E-03	2.9E-03	4.6E-03	7.6E-03	1.1E-02	3.7E-03	1.7E-03	4.8E-03	1.7E-03	1.5E-02	1.9E-03	2.9E-03	2.7E-03	4.4E-03	7.7E-03			
Body Weight Adjusted Dose (mg/kg/day)		1.4E-01	1.4E-01	2.0E-01	3.1E-01	5.1E-01	7.6E-01	2.5E-01	1.2E-01	3.2E-01	1.1E-01	9.7E-01	1.3E-01	1.9E-01	1.8E-01	2.9E-01	5.2E-01			
Habitat-Adjusted Dose (mg/kg/day)		1.4E-01	1.4E-01	2.0E-01	3.1E-01	5.1E-01	7.6E-01	2.5E-01	1.2E-01	3.2E-01	1.1E-01	9.7E-01	1.3E-01	1.9E-01	1.8E-01	2.9E-01	5.2E-01			
NOAEL-based TRV (mg/kg/day)		1.2E+00	1.2E+00	1.2E+00	2.1E-01	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	4.4E-03	1.2E+00	1.2E+00	1.2E+00	1.1E+02	1.2E+00	1.2E+00			
Screening Quotient		0.1	0.1	0.2	1.5	0.4	0.6	0.2	0.1	0.3	25.2	0.8	0.1	0.2	0.0	0.2	0.4			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.50E-02	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	9.00E-03	Sample and Suter (1994)		Soil Invertebrates	1.00	Sample and Suter (1994)
Soil Intake Rate (SIR; kg/d)	1.17E-03	Sample and Suter (1994)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	3.30E-03	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	3.90E+03	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Raccoon		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	6.7E-02	5.4E-02	4.1E-02	1.9E-02	0.0E+00	1.8E-02	1.9E-03	2.7E-03	1.7E-02	1.7E-03	9.5E-02	4.1E-02	1.7E-03	1.8E-01	6.9E-02	5.1E-02			
	Soil Invertebrates	2.5E-02	2.5E-02	3.6E-02	2.8E-02	8.6E-02	1.3E-01	4.5E-02	2.1E-02	3.6E-02	1.9E-02	1.8E-01	2.3E-02	3.5E-02	3.3E-02	5.4E-02	9.5E-02			
	Small Mammals	3.2E-01	3.1E-01	4.5E-01	9.3E-01	1.2E+00	1.8E+00	5.6E-01	2.7E-01	9.0E-01	2.7E-01	2.2E+00	2.9E-01	4.4E-01	4.2E-01	6.8E-01	1.2E+00			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil	3.0E-02	3.0E-02	4.3E-02	8.8E-02	1.2E-01	1.7E-01	5.3E-02	2.5E-02	8.5E-02	2.5E-02	2.1E-01	2.7E-02	4.2E-02	3.9E-02	6.4E-02	1.1E-01			
Total Ingested Dose (mg/d)		4.4E-01	4.2E-01	5.7E-01	1.1E+00	1.4E+00	2.1E+00	6.7E-01	3.2E-01	1.0E+00	3.1E-01	2.7E+00	3.8E-01	5.2E-01	6.7E-01	8.7E-01	1.4E+00			
Body Weight Adjusted Dose (mg/kg/day)		7.6E-02	7.3E-02	9.9E-02	1.8E-01	2.5E-01	3.7E-01	1.2E-01	5.5E-02	1.8E-01	5.4E-02	4.7E-01	6.6E-02	9.0E-02	1.2E-01	1.5E-01	2.5E-01			
Habitat-Adjusted Dose (mg/kg/day)		8.7E-03	8.3E-03	1.1E-02	2.1E-02	2.8E-02	4.2E-02	1.3E-02	6.2E-03	2.1E-02	6.2E-03	5.4E-02	7.5E-03	1.0E-02	1.3E-02	1.7E-02	2.8E-02			
NOAEL-based TRV (mg/kg/day)		2.7E-01	2.7E-01	2.7E-01	4.7E-02	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	9.9E-04	2.7E-01	2.7E-01	2.7E-01	2.5E+01	2.7E-01	2.7E-01			
Screening Quotient		0.0	0.0	0.0	0.4	0.1	0.2	0.0	0.0	0.1	6.2	0.2	0.0	0.0	0.0	0.1	0.1			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	5.78E+00	Average of values from USEPA (1993)	Dietary Preferences (%)	Plants	0.25	Omnivore, equal proportion of diet assumed
Food Intake Rate (FIR; kg wet/d)	1.16E+00	Allometric scaling, assumes food moisture content of 75%		Soil Invertebrates	0.25	Omnivore, equal proportion of diet assumed
Soil Intake Rate (SIR; kg/d)	2.73E-02	9.4% of dry weight FIR (USEPA, 1993).		Small Mammals	0.25	Omnivore, equal proportion of diet assumed
Water Intake Rate (WIR; L/d)	4.77E-01	Estimated using BW and average WIR from USEPA (1993)		Aquatic Insects	0.25	Omnivore, equal proportion of diet assumed
Habitat Range (m ²)	1.56E+06	Average of USEPA (1993) values for riparian habitat		Fish	0.00	Not consumed
Habitat Factor	0.114	Site area smaller than habitat range		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Willow Flycatcher		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil Invertebrates	1.5E-03	1.4E-03	2.1E-03	1.6E-03	5.0E-03	7.4E-03	2.6E-03	1.2E-03	2.1E-03	1.1E-03	1.0E-02	1.3E-03	2.0E-03	1.9E-03	3.1E-03	5.5E-03			
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil	7.7E-05	7.6E-05	1.1E-04	2.3E-04	3.0E-04	4.4E-04	1.4E-04	6.4E-05	2.2E-04	6.5E-05	5.4E-04	7.0E-05	1.1E-04	1.0E-04	1.6E-04	2.9E-04			
Total Ingested Dose (mg/d)		1.5E-03	1.5E-03	2.2E-03	1.8E-03	5.3E-03	7.8E-03	2.7E-03	1.3E-03	2.3E-03	1.1E-03	1.1E-02	1.4E-03	2.2E-03	2.0E-03	3.3E-03	5.7E-03			
Body Weight Adjusted Dose (mg/kg/day)		1.2E-01	1.2E-01	1.7E-01	1.4E-01	4.1E-01	6.0E-01	2.1E-01	1.0E-01	1.8E-01	8.8E-02	8.4E-01	1.1E-01	1.7E-01	1.6E-01	2.5E-01	4.4E-01			
Habitat-Adjusted Dose (mg/kg/day)		1.2E-01	1.2E-01	1.7E-01	1.4E-01	4.1E-01	6.0E-01	2.1E-01	1.0E-01	1.8E-01	8.8E-02	8.4E-01	1.1E-01	1.7E-01	1.6E-01	2.5E-01	4.4E-01			
NOAEL-based TRV (mg/kg/day)		1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
Screening Quotient		1.2	1.2	1.7	1.4	4.1	6.0	2.1	1.0	1.8	0.9	8.4	1.1	1.7	1.6	2.5	4.4			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.29E-02	Average of values from Cal/Ecotox (2003)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	1.67E-02	Allometric scaling, assumes food moisture content of 79%		Soil Invertebrates	1.00	Cal/Ecotox (2003)
Soil Intake Rate (SIR; kg/d)	7.01E-05	2% of dry food intake rate		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	3.20E-03	Allometric scaling		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	3.00E+03	Average of values from Cal/Ecotox (2003)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

American Robin		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	1.1E-02	8.6E-03	6.6E-03	3.0E-03	0.0E+00	3.0E-03	3.1E-04	4.3E-04	2.7E-03	2.7E-04	1.5E-02	6.6E-03	2.8E-04	3.0E-02	1.1E-02	8.2E-03			
	Soil Invertebrates	4.1E-03	4.0E-03	5.8E-03	4.5E-03	1.4E-02	2.1E-02	7.3E-03	3.4E-03	5.8E-03	3.0E-03	2.9E-02	3.7E-03	5.7E-03	5.4E-03	8.7E-03	1.5E-02			
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil	2.1E-03	2.1E-03	3.0E-03	6.1E-03	8.1E-03	1.2E-02	3.7E-03	1.7E-03	5.9E-03	1.8E-03	1.5E-02	1.9E-03	2.9E-03	2.7E-03	4.4E-03	7.8E-03			
Total Ingested Dose (mg/d)		1.7E-02	1.5E-02	1.5E-02	1.4E-02	2.2E-02	3.5E-02	1.1E-02	5.6E-03	1.4E-02	5.0E-03	5.9E-02	1.2E-02	8.9E-03	3.8E-02	2.4E-02	3.1E-02			
Body Weight Adjusted Dose (mg/kg/day)		2.2E-01	1.9E-01	2.0E-01	1.8E-01	2.8E-01	4.6E-01	1.5E-01	7.3E-02	1.9E-01	6.5E-02	7.6E-01	1.6E-01	1.2E-01	4.9E-01	3.2E-01	4.0E-01			
Habitat-Adjusted Dose (mg/kg/day)		2.2E-01	1.9E-01	2.0E-01	1.8E-01	2.8E-01	4.6E-01	1.5E-01	7.3E-02	1.9E-01	6.5E-02	7.6E-01	1.6E-01	1.2E-01	4.9E-01	3.2E-01	4.0E-01			
NOAEL-based TRV (mg/kg/day)		1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
Screening Quotient		2.2	1.9	2.0	1.8	2.8	4.6	1.5	0.7	1.9	0.7	7.6	1.6	1.2	4.9	3.2	4.0			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	7.70E-02	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.50	Robins are opportunistic feeders, diet varies by season
Food Intake Rate (FIR; kg wet/d)	9.30E-02	Sample and Suter (1994)		Soil Invertebrates	0.50	Robins are opportunistic feeders, diet varies by season
Soil Intake Rate (SIR; kg/d)	1.90E-03	Sample and Suter (1994)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	1.06E-02	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	4.20E+03	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	1.0	Habitat range smaller than site area		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Red-tailed Hawk		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil Invertebrates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Small Mammals	1.2E-01	1.2E-01	1.7E-01	3.5E-01	4.6E-01	6.9E-01	2.1E-01	1.0E-01	3.4E-01	1.0E-01	8.4E-01	1.1E-01	1.7E-01	1.6E-01	2.6E-01	4.5E-01			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment																			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
Total Ingested Dose (mg/d)		1.2E-01	1.2E-01	1.7E-01	3.5E-01	4.6E-01	6.9E-01	2.1E-01	1.0E-01	3.4E-01	1.0E-01	8.4E-01	1.1E-01	1.7E-01	1.6E-01	2.6E-01	4.5E-01			
Body Weight Adjusted Dose (mg/kg/day)		1.1E-01	1.0E-01	1.5E-01	3.1E-01	4.1E-01	6.1E-01	1.9E-01	8.9E-02	3.0E-01	8.9E-02	7.5E-01	9.7E-02	1.5E-01	1.4E-01	2.3E-01	4.0E-01			
Habitat-Adjusted Dose (mg/kg/day)		8.1E-03	8.0E-03	1.2E-02	2.4E-02	3.1E-02	4.7E-02	1.4E-02	6.8E-03	2.3E-02	6.8E-03	5.7E-02	7.4E-03	1.1E-02	1.1E-02	1.7E-02	3.0E-02			
NOAEL-based TRV (mg/kg/day)		1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
Screening Quotient		0.1	0.1	0.1	0.2	0.3	0.5	0.1	0.1	0.2	0.1	0.6	0.1	0.1	0.1	0.2	0.3			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.13E+00	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	1.09E-01	Sample and Suter (1994)		Soil Invertebrates	0.00	Not consumed
Soil Intake Rate (SIR; kg/d)	0.00E+00	Sample and Suter (1994): "assumed negligible"		Small Mammals	1.00	Sample and Suter (1994): "predominantly small mammals"
Water Intake Rate (WIR; L/d)	6.40E-02	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	2.33E+06	Sample and Suter (1994)		Fish	0.00	Not consumed
Habitat Factor	0.08	Site area smaller than habitat range		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Mallard Duck		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	7.5E-03	6.0E-03	4.6E-03	2.1E-03	0.0E+00	2.1E-03	2.2E-04	3.0E-04	1.9E-03	1.9E-04	1.1E-02	4.6E-03	1.9E-04	2.1E-02	7.8E-03	5.7E-03			
	Soil Invertebrates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Small Mammals	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	9.2E-02	0.0E+00	3.4E-01	5.3E-01	5.8E-01	5.0E-01	2.1E-01	5.2E-01	4.7E-01	9.8E-02	1.2E+00	8.9E-02	2.6E-01	1.2E-02	1.0E+00	1.1E+00			
	Sediment	2.3E-04	0.0E+00	8.6E-04	1.5E-03	1.5E-03	1.2E-03	5.2E-04	1.3E-03	1.4E-03	2.4E-04	3.1E-03	2.2E-04	6.5E-04	3.1E-05	2.6E-03	2.9E-03			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil																			
Total Ingested Dose (mg/d)		1.0E-01	6.0E-03	3.5E-01	5.3E-01	5.8E-01	5.1E-01	2.1E-01	5.2E-01	4.7E-01	9.9E-02	1.3E+00	9.4E-02	2.6E-01	3.3E-02	1.0E+00	1.1E+00			
Body Weight Adjusted Dose (mg/kg/day)		8.6E-02	5.2E-03	3.0E-01	4.6E-01	5.0E-01	4.4E-01	1.8E-01	4.5E-01	4.0E-01	8.5E-02	1.1E+00	8.1E-02	2.3E-01	2.9E-02	9.0E-01	9.9E-01			
Habitat-Adjusted Dose (mg/kg/day)		3.8E-02	2.3E-03	1.3E-01	2.0E-01	2.2E-01	1.9E-01	7.9E-02	2.0E-01	1.8E-01	3.8E-02	4.8E-01	3.6E-02	1.0E-01	1.3E-02	4.0E-01	4.4E-01			
NOAEL-based TRV (mg/kg/day)		1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
Screening Quotient		0.4	0.0	1.3	2.0	2.2	1.9	0.8	2.0	1.8	0.4	4.8	0.4	1.0	0.1	4.0	4.4			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	1.16E+00	Average of adult weight provided in USEPA (1993)	Dietary Preferences (%)	Plants	0.25	Omnivore, eats seeds (USEPA, 1993)
Food Intake Rate (FIR; kg wet/d)	1.30E-01	Maximum adult FIR cited by Cal/Exttox (2003)		Soil Invertebrates	0.00	Not consumed
Sediment Intake Rate (SIR; kg/d)	2.60E-04	2% of food intake (USEPA, 1993)		Small Mammals	0.00	Not consumed
Water Intake Rate (WIR; L/d)	6.56E-02	Estimated using BW and average WIR from USEPA (1993)		Aquatic Insects	0.25	Omnivore, eats insects (USEPA, 1993)
Habitat Range (m ²)	4.00E+05	Lowest habitat range from USEPA (1993)		Fish	0.00	Not consumed
Habitat Factor	0.4	Site area smaller than habitat range		Sediment Benthos	0.50	Omnivore, strains sediment for food (USEPA, 1993)
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.50	

Notes:



CALCULATED DOSE AND SCREENING QUOTIENTS

Great Blue Heron		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene			
Dose (mg/d)	Plants	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Soil Invertebrates	9.2E-04	9.1E-04	1.3E-03	1.0E-03	3.1E-03	4.6E-03	1.6E-03	7.7E-04	1.3E-03	6.8E-04	6.5E-03	8.4E-04	1.3E-03	1.2E-03	2.0E-03	3.4E-03			
	Small Mammals	1.2E-02	1.1E-02	1.6E-02	3.4E-02	4.5E-02	6.6E-02	2.0E-02	9.6E-03	3.3E-02	9.7E-03	8.1E-02	1.1E-02	1.6E-02	1.5E-02	2.5E-02	4.3E-02			
	Aquatic Insects	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Fish	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment Benthos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Sediment	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
	Water (mg/L)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
Soil																				
Total Ingested Dose (mg/d)		1.2E-02	1.2E-02	1.8E-02	3.5E-02	4.8E-02	7.1E-02	2.2E-02	1.0E-02	3.4E-02	1.0E-02	8.8E-02	1.1E-02	1.7E-02	1.6E-02	2.7E-02	4.6E-02			
Body Weight Adjusted Dose (mg/kg/day)		5.2E-03	5.1E-03	7.4E-03	1.5E-02	2.0E-02	3.0E-02	9.3E-03	4.4E-03	1.4E-02	4.3E-03	3.7E-02	4.7E-03	7.3E-03	6.8E-03	1.1E-02	1.9E-02			
Habitat-Adjusted Dose (mg/kg/day)		1.3E-03	1.3E-03	1.9E-03	3.6E-03	5.0E-03	7.4E-03	2.3E-03	1.1E-03	3.6E-03	1.1E-03	9.2E-03	1.2E-03	1.8E-03	1.7E-03	2.8E-03	4.9E-03			
NOAEL-based TRV (mg/kg/day)		1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01			
Screening Quotient		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0			

FOOD CHAIN MODEL PARAMETERIZATION

Body Weight (BW; kg)	2.39E+00	Sample and Suter (1994)	Dietary Preferences (%)	Plants	0.00	Not consumed
Food Intake Rate (FIR; kg wet/d)	4.20E-01	Sample and Suter (1994)		Soil Invertebrates	0.025	Sample and Suter (1994): "may include insects, snails"
Sediment Intake Rate (SIR; kg/d)	0.00E+00	Piscivorous birds have negligible soil/sediment uptake		Small Mammals	0.025	Sample and Suter (1994): "may include birds, mammals"
Water Intake Rate (WIR; L/d)	1.06E-01	Sample and Suter (1994)		Aquatic Insects	0.00	Not consumed
Habitat Range (m ²)	N/A	Sample and Suter (1994): "up to 24.2 km river"		Fish	0.95	Sample and Suter (1994): "predominantly fish"
Habitat Factor	0.3	Assumed to spend 25% of time on site		Sediment Benthos	0.00	Not consumed
Size of Area (m ²)	1.78E+05	Total size of site (44 acres)			0.00	

Notes:

