

Table 5-30

Calculated Chemical Intake and Resulting Hazard Quotients for the Hawaiian Stilt, Waimanalo Stream (WS-002)

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Chemical Group	Chemical	Sediment Concentration (mg/kg)	Fish Concentration (mg/kg)	Fish Fraction	Sediment Fraction	Sediment			CI	HQ
						SUF	IR	RTV		
PEST/PCB	4,4'-DDD	0.018	R	0.90	0.10	1.0	0.11	0.52	--	--
PEST/PCB	4,4'-DDE	0.0054	0.037	0.90	0.10	1.0	0.11	0.13	3.696E-03	2.843E-02
PEST/PCB	4,4'-DDT	R	0.0085	0.90	0.10	1.0	0.11	0.10	--	--
PEST/PCB	Aldrin	0.0038	R	0.90	0.10	1.0	0.11	1.0	--	--
PEST/PCB	Aroclor-1260	0.073	0.13	0.90	0.10	1.0	0.11	1.8	1.336E-02	7.504E-03
PEST/PCB	Chlordane (Alpha)	0.039	0.0060	0.90	0.10	1.0	0.11	2.1	1.011E-03	4.726E-04
PEST/PCB	Chlordane (Gamma)	0.0072	0.0026	0.90	0.10	1.0	0.11	2.1	3.297E-04	1.541E-04
PEST/PCB	Dieldrin	0.011	0.045	0.90	0.10	1.0	0.11	0.080	4.546E-03	5.683E-02
PEST/PCB	Endosulfan I	0.0052	R	0.90	0.10	1.0	0.11	10	--	--
PEST/PCB	Endosulfan II	0.024	R	0.90	0.10	1.0	0.11	10	--	--
PEST/PCB	Endosulfan sulfate	0.014	0.0018	0.90	0.10	1.0	0.11	10	3.281E-04	3.281E-05
PEST/PCB	Endrin	0.031	R	0.90	0.10	1.0	0.11	0.30	--	--
PEST/PCB	Endrin aldehyde	R	R	0.90	0.10	1.0	0.11	0.30	--	--
PEST/PCB	Heptachlor	4.4	9.76E-04	0.90	0.10	1.0	0.11	0.080	4.806E-02	6.007E-01
PEST/PCB	Heptachlor epoxide	0.011	0.0039	0.90	0.10	1.0	0.11	0.0023	5.067E-04	2.203E-01
PEST/PCB	Methoxychlor	0.0096	0.0050	0.90	0.10	1.0	0.11	220	5.912E-04	2.687E-06
PEST/PCB	gamma-BHC (Lindane)	0.47	R	0.90	0.10	1.0	0.11	4.0	--	--
METALS	Arsenic	5.8	2.6	0.90	0.10	1.0	0.11	5.14	3.217E-01	6.259E-02
METALS	Barium	14	9.4	0.90	0.10	1.0	0.11	21	1.078E+00	5.175E-02
METALS	Cadmium	1.0	0.11	0.90	0.10	1.0	0.11	1.5	2.132E-02	1.470E-02
METALS	Chromium	120	17	0.90	0.10	1.0	0.11	10	2.986E+00	2.928E-01
METALS	Copper	57	90	0.90	0.10	1.0	0.11	47	9.414E+00	2.003E-01
METALS	Lead	9.0	1.7	0.90	0.10	1.0	0.11	8.1	2.695E-01	3.327E-02
METALS	Manganese	371	117	0.90	0.10	1.0	0.11	977	5.004E+02	5.122E-01
METALS	Mercury	0.13	0.050	0.90	0.10	1.0	0.11	0.32	6.076E-03	1.899E-02
METALS	Nickel	81	13	0.90	0.10	1.0	0.11	15	1.808E+00	1.168E-01
METALS	Selenium	2.2	3.1	0.90	0.10	1.0	0.11	0.40	6.962E-02	1.741E-01
METALS	Silver	0.79	0.14	0.90	0.10	1.0	0.11	2.1	1.903E-02	8.976E-03
METALS	Vanadium	104	22	0.90	0.10	1.0	0.11	11	2.812E+00	2.467E-01
METALS	Zinc	87	115	0.90	0.10	1.0	0.11	15	1.215E+00	8.378E-02

Notes:

All concentrations are given in dry weight.

SUF = site use factor

IR = ingestion rate

RTV = reference toxicity value

CI = chemical intake

HQ = hazard quotient

NTV = no toxicity value

R = rejected value

PEST/PCB = pesticides/polychlorinated biphenyls

mg/kg = milligrams per kilogram