

Table 5-33

**Calculated Chemical Intake and Resulting Hazard Quotients for the Hawaiian Stilt, Waimanalo Stream
(All Downstream Results)**

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Chemical Group	Chemical	Sediment Concentration (mg/kg)	Fish Concentration (mg/kg)	Fish Fraction	Sediment Fraction	SUF	IR	RTV	CI	HQ
PEST/PCB	4,4'-DDD	0.016	R	0.90	0.10	1.0	0.11	0.52	--	--
PEST/PCB	4,4'-DDE	0.010	0.053	0.90	0.10	1.0	0.11	0.13	5.358E-03	4.122E-02
PEST/PCB	4,4'-DDT	0.019	0.011	0.90	0.10	1.0	0.11	0.10	1.305E-03	1.305E-02
PEST/PCB	Aldrin	0.0036	3.97E-04	0.90	0.10	1.0	0.11	1.0	7.807E-05	7.807E-05
PEST/PCB	Aroclor-1260	0.034	0.13	0.90	0.10	1.0	0.11	1.8	1.293E-02	7.262E-03
PEST/PCB	Chlordane (Alpha)	0.033	0.0090	0.90	0.10	1.0	0.11	2.1	1.243E-03	5.810E-04
PEST/PCB	Chlordane (Gamma)	0.0070	0.0032	0.90	0.10	1.0	0.11	2.1	3.896E-04	1.820E-04
PEST/PCB	Dieldrin	0.0097	0.082	0.90	0.10	1.0	0.11	0.080	8.119E-03	1.015E-01
PEST/PCB	Endosulfan I	0.0084	8.55E-04	0.90	0.10	1.0	0.11	10	1.749E-04	1.749E-05
PEST/PCB	Endosulfan II	0.022	0.0056	0.90	0.10	1.0	0.11	10	7.874E-04	7.874E-05
PEST/PCB	Endosulfan sulfate	0.019	0.0022	0.90	0.10	1.0	0.11	10	4.259E-04	4.259E-05
PEST/PCB	Endrin	0.029	0.0031	0.90	0.10	1.0	0.11	0.30	6.126E-04	2.042E-03
PEST/PCB	Endrin aldehyde	0.0081	8.55E-04	0.90	0.10	1.0	0.11	0.30	1.721E-04	5.738E-04
PEST/PCB	Heptachlor	3.9	9.51E-04	0.90	0.10	1.0	0.11	0.080	4.260E-02	5.325E-01
PEST/PCB	Heptachlor epoxide	0.0099	0.0065	0.90	0.10	1.0	0.11	0.0023	7.422E-04	3.227E-01
PEST/PCB	Methoxychlor	0.022	0.0074	0.90	0.10	1.0	0.11	220	9.717E-04	4.417E-06
PEST/PCB	gamma-BHC (Lindane)	0.47	0.0043	0.90	0.10	1.0	0.11	4.0	5.542E-03	1.385E-03
METALS	Arsenic	7.1	2.8	0.90	0.10	1.0	0.11	5.14	3.536E-01	6.880E-02
METALS	Barium	17	9.4	0.90	0.10	1.0	0.11	21	1.103E+00	5.294E-02
METALS	Cadmium	1.0	0.100	0.90	0.10	1.0	0.11	1.5	2.067E-02	1.426E-02
METALS	Chromium	120	17	0.90	0.10	1.0	0.11	10	2.986E+00	2.928E-01
METALS	Copper	57	220	0.90	0.10	1.0	0.11	47	2.218E+01	4.719E-01
METALS	Lead	9.0	2.7	0.90	0.10	1.0	0.11	8.1	3.613E-01	4.461E-02
METALS	Manganese	505	158	0.90	0.10	1.0	0.11	977	2.097E+01	2.146E-02
METALS	Mercury	0.063	0.072	0.90	0.10	1.0	0.11	0.32	7.790E-03	2.434E-02
METALS	Nickel	81	13	0.90	0.10	1.0	0.11	15	2.115E+00	1.367E-01
METALS	Selenium	1.1	6.0	0.90	0.10	1.0	0.11	0.40	6.003E-01	1.501E+00
METALS	Silver	0.69	0.34	0.90	0.10	1.0	0.11	2.1	4.109E-02	1.938E-02
METALS	Vanadium	104	21	0.90	0.10	1.0	0.11	11	3.164E+00	2.775E-01
METALS	Zinc	87	134	0.90	0.10	1.0	0.11	15	1.413E+01	9.746E-01

Notes:

Bold and shading indicate that the concentration exceeds a hazard quotient of 1.

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 kilograms