

Table 4-9

**Statistical Summary of Chemicals Detected in Whole-Body Fish Tissue (Tilapia) Samples from Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii**

Chemical Group	Chemical	CAS	Units	Number of Detects	Number of Rejections	Number of Samples	Frequency	Minimum MDL	Maximum MDL	Minimum Detected Value	Maximum Detected Value
							of Detection (a)				
PEST	4,4'-DDD	72-54-8	mg/kg, WET	--	7	7	--	--	--	--	--
PEST	4,4'-DDE	72-55-9	mg/kg, WET	7	--	7	100%	--	--	0.00153	0.01414
PEST	4,4'-DDT	50-29-3	mg/kg, WET	4	--	7	57%	0.00033	0.00036	0.00085	0.00291
PEST	Chlordane (Alpha)	5103-71-9	mg/kg, WET	3	--	7	43%	0.00012	0.0014	0.00147	0.00234
PEST	Chlordane (Gamma)	5103-74-2	mg/kg, WET	2	--	7	29%	0.00038	0.0004	0.00063	0.00083
PEST	Dieldrin	60-57-1	mg/kg, WET	7	--	7	100%	--	--	0.00449	0.03022
PEST	Endosulfan I	959-98-8	mg/kg, WET	1	1	6	17%	0.00038	0.0004	0.00058	0.00058
PEST	Endosulfan II	33213-65-9	mg/kg, WET	3	1	6	50%	0.00038	0.00039	0.0009	0.00145
PEST	Endosulfan sulfate	1031-07-8	mg/kg, WET	4	--	7	57%	0.00038	0.00039	0.00044	0.00063
PEST	Endrin	72-20-8	mg/kg, WET	2	1	6	33%	0.00038	0.00039	0.00053	0.0008
PEST	Endrin aldehyde	7421-93-4	mg/kg, WET	1	1	6	17%	0.00038	0.0004	0.00136	0.00136
PEST	Heptachlor	76-44-8	mg/kg, WET	2	--	7	29%	0.00014	0.00015	0.00016	0.00024
PEST	Heptachlor epoxide	1024-57-3	mg/kg, WET	6	--	7	86%	0.00048	0.00048	0.00062	0.00193
PEST	Methoxychlor	72-43-5	mg/kg, WET	3	--	7	43%	0.00038	0.00039	0.00109	0.00212
PEST	alpha-BHC	319-84-6	mg/kg, WET	6	--	7	86%	0.00038	0.00038	0.00041	0.00118
PEST	beta-BHC	319-85-7	mg/kg, WET	1	1	6	17%	0.00038	0.0004	0.00051	0.00051
PEST	delta-BHC	319-86-8	mg/kg, WET	3	1	6	50%	0.00038	0.00038	0.00049	0.00081
PEST	gamma-BHC (Lindar)	58-89-9	mg/kg, WET	2	1	6	33%	0.00023	0.00024	0.00024	0.00111
PCB	Aroclor-1260	11096-82-5	mg/kg, WET	5	1	6	83%	0.0134	0.0134	0.0138	0.0315
METALS	Aluminum	7429-90-5	mg/kg, DRY	7	--	7	100%	--	--	1170	5060
METALS	Antimony	7440-36-0	mg/kg, DRY	7	--	7	100%	--	--	0.03114	0.06788
METALS	Arsenic	7440-38-2	mg/kg, DRY	7	--	7	100%	--	--	0.7628	2.835
METALS	Barium	7440-39-3	mg/kg, DRY	7	--	7	100%	--	--	4.157	14.25
METALS	Beryllium	7440-41-7	mg/kg, DRY	6	1	6	100%	--	--	0.3623	0.512
METALS	Cadmium	7440-43-9	mg/kg, DRY	7	--	7	100%	--	--	0.0386	0.212
METALS	Chromium	7440-47-3	mg/kg, DRY	7	--	7	100%	--	--	4.187	17.11
METALS	Cobalt	7440-48-4	mg/kg, DRY	7	--	7	100%	--	--	0.9604	2.865
METALS	Copper	7440-50-8	mg/kg, DRY	7	--	7	100%	--	--	13.26	245.1
METALS	Lead	7439-92-1	mg/kg, DRY	7	--	7	100%	--	--	0.6187	2.869
METALS	Manganese	7439-96-5	mg/kg, DRY	7	--	7	100%	--	--	100.5	178.8
METALS	Mercury	7439-97-6	mg/kg, DRY	7	--	7	100%	--	--	0.0425	0.0753
METALS	Molybdenum	7439-98-7	mg/kg, DRY	7	--	7	100%	--	--	0.2294	0.3049

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Chemical Group	Chemical	CAS	Units	Number of Detects	Number of Rejections	Number of Samples	Frequency	Minimum MDL	Maximum MDL	Minimum Detected Value	Maximum Detected Value
							of Detection (a)				
METALS	Nickel	7440-02-0	mg/kg, DRY	7	--	7	100%	--	--	4.185	12.52
METALS	Selenium	7782-49-2	mg/kg, DRY	7	--	7	100%	--	--	1.393	10.83
METALS	Silver	7440-22-4	mg/kg, DRY	7	--	7	100%	--	--	0.04501	0.3941
METALS	Thallium	7440-28-0	mg/kg, DRY	7	--	7	100%	--	--	0.01166	0.02351
METALS	Vanadium	7440-62-2	mg/kg, DRY	7	--	7	100%	--	--	4.411	22.17
METALS	Zinc	7440-66-6	mg/kg, DRY	7	--	7	100%	--	--	91.36	138.1

Notes:

(a) Frequency of detection is based on number of detections divided by [total number of samples minus number of rejections].

Chemical Groups

PEST = pesticides

PCB = polychlorinated biphenyls

Abbreviations

mg/kg = milligrams per kilogram

MDL = method detection limit