

Table 4-11

Statistical Summary of Chemicals Detected in Fish Tissue (Tilapia Fillet) Samples from Waimanalo Stream

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Chemical Group	Chemical	CAS	Units	Number of Detects	Number of Rejects	Number of Samples	Frequency of	Minimum MDL	Maximum MDL	Minimum Detected Value	Maximum Detected Value
							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%	--	--	0.00074	0.00256
PEST	4,4'-DDT	50-29-3	mg/kg, WET	1	--	7	14%	0.00033	0.00108	0.00072	0.00072
PEST	Chlordane (Alpha)	5103-71-9	mg/kg, WET	2	--	7	29%	0.00012	0.00012	0.00028	0.00063
PEST	Dieldrin	60-57-1	mg/kg, WET	7	--	7	100%	--	--	0.00107	0.00468
METALS	Aluminum	7429-90-5	mg/kg, DRY	7	--	7	100%	--	--	5.408	26.17
METALS	Antimony	7440-36-0	mg/kg, DRY	3	--	7	43%	0.03	0.03	0.03559	0.0476
METALS	Arsenic	7440-38-2	mg/kg, DRY	7	--	7	100%	--	--	0.4708	2.77
METALS	Barium	7440-39-3	mg/kg, DRY	7	--	7	100%	--	--	0.3558	1.449
METALS	Beryllium	7440-41-7	mg/kg, DRY	6	1	6	100%	--	--	0.3976	0.5003
METALS	Cadmium	7440-43-9	mg/kg, DRY	7	--	7	100%	--	--	0.02618	0.06651
METALS	Chromium	7440-47-3	mg/kg, DRY	1	6	1	100%	--	--	0.714	0.714
METALS	Cobalt	7440-48-4	mg/kg, DRY	7	--	7	100%	--	--	0.1719	0.3512
METALS	Copper	7440-50-8	mg/kg, DRY	7	--	7	100%	--	--	3.276	17.2
METALS	Lead	7439-92-1	mg/kg, DRY	7	--	7	100%	--	--	0.03294	3.28
METALS	Manganese	7439-96-5	mg/kg, DRY	7	--	7	100%	--	--	2.618	9.66
METALS	Mercury	7439-97-6	mg/kg, DRY	7	--	7	100%	--	--	0.0437	0.0778
METALS	Molybdenum	7439-98-7	mg/kg, DRY	7	--	7	100%	--	--	0.05681	0.118
METALS	Nickel	7440-02-0	mg/kg, DRY	7	--	7	100%	--	--	0.2371	0.3648
METALS	Selenium	7782-49-2	mg/kg, DRY	7	--	7	100%	--	--	2.687	6.283
METALS	Silver	7440-22-4	mg/kg, DRY	7	--	7	100%	--	--	0.03013	0.0607
METALS	Thallium	7440-28-0	mg/kg, DRY	7	--	7	100%	--	--	0.01075	0.01802
METALS	Vanadium	7440-62-2	mg/kg, DRY	7	--	7	100%	--	--	0.2439	1.279
METALS	Zinc	7440-66-6	mg/kg, DRY	7	--	7	100%	--	--	39.87	63.48

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 biphenyl:

Abbreviations

mg/kg = milligrams per kilogram

MDL = method detection limit

Values are for processed data: i.e., (1) multiple results for naphthalene from different analytical methods (SW8260A and SW8310) have been resolved into a single result for each sample, and (2) field duplicates have been resolved into a single result for each location.