

Table 4-12
Chemicals Detected in Fish Tissue Fillets (Tilapia) Samples from Waimanalo Stream
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Sample ID	Upstream Locations				Downstream Locations					
	WSU-TS001F	WSU-TS002F	WS-TS001F	WS-TS002F	WS-TS003F	WS-TS004F	WS-TS005F			
Sampling Date	11/19/98	11/19/98	11/17/98	11/17/98	11/17/98	11/16/98	11/16/98			
Location ID	WSU-001	WSU-002	WS-001	WS-002	WS-003	WS-004	WS-005			
Sample Type	Fillet	Fillet	Fillet	Fillet	Fillet	Fillet	Fillet			
Depth (cm)	0-1.5	0-1	0-4	0-4	0-4	0-5	0-3			
Chemical Group	Chemical	CAS	Units							
PEST	4,4'-DDE	72-55-9	mg/kg, WET	0.00076 J	0.00079 J	0.00256 J	0.00083	0.0009 J	0.00074	0.00094
PEST	4,4'-DDT	50-29-3	mg/kg, WET	ND	ND	0.00072 J	ND	ND	ND	ND
PEST	Dieldrin	60-57-1	mg/kg, WET	0.00286	0.00468	0.00331	0.00159	0.00107	0.00109	0.00121
PEST	a-Chlordane	5103-71-9	mg/kg, WET	0.00063 J	ND	0.00028 J	ND	ND	ND	ND
METALS	Aluminum	7429-90-5	mg/kg, DRY	5.408 J	7.416 J	20.9 M	14.67 J	26.17 J	8.877 J	23.68 J
METALS	Antimony	7440-36-0	mg/kg, DRY	0.0404 B	ND	0.0476 B	ND	ND	0.03559 B	ND
METALS	Arsenic	7440-38-2	mg/kg, DRY	0.4745 B	0.4708 B	2.31 B	2.011 B	2.77 B	1.626 B	1.625 B
METALS	Barium	7440-39-3	mg/kg, DRY	1.1 B	0.3558 B	0.475 M	0.6851 B	1.449 B	0.5724 B	0.8959 B
METALS	Beryllium	7440-41-7	mg/kg, DRY	0.5003 J	0.412 J	0.497 M	0.4091 J	0.4297 J	0.3976 J	R
METALS	Cadmium	7440-43-9	mg/kg, DRY	0.06651 B	0.05274 B	0.0501 M	0.04721 B	0.03734 B	0.04851 B	0.02618 B
METALS	Chromium	7440-47-3	mg/kg, DRY	R	R	0.714 M	R	R	R	R
METALS	Cobalt	7440-48-4	mg/kg, DRY	0.2735	0.2626	0.232	0.3512	0.2017	0.1719	0.2236
METALS	Copper	7440-50-8	mg/kg, DRY	3.276 B	7.302 B	17.2 M	3.457 B	5.79 B	3.559 B	12.87 B
METALS	Lead	7439-92-1	mg/kg, DRY	0.07023 B	0.03294 B	3.28 B	0.08864 B	0.4109 B	0.05369 B	0.07046 B
METALS	Manganese	7439-96-5	mg/kg, DRY	7.298	3.273	3.02 M	9.66	5.193	2.618	6.472
METALS	Mercury	7439-97-6	mg/kg, DRY	0.0437 B	0.0674 B	0.0778 B	0.0625 B	0.0699 B	0.0484 B	0.0729 B
METALS	Molybdenum	7439-98-7	mg/kg, DRY	0.09979 B	0.08315 B	0.0993 B	0.118 B	0.09335 B	0.08872 B	0.05681 B
METALS	Nickel	7440-02-0	mg/kg, DRY	0.3234 J	0.2901 J	0.279 J	0.3648 J	0.3398 J	0.2371 J	0.3333 J
METALS	Selenium	7782-49-2	mg/kg, DRY	4.755 B	6.283	3.49 B	3.904 B	2.887 B	3.18 B	2.687 B
METALS	Silver	7440-22-4	mg/kg, DRY	0.03687 B	0.03151 B	0.0607 B	0.04225 B	0.03945 B	0.04051 B	0.03013 B
METALS	Thallium	7440-28-0	mg/kg, DRY	0.01773 B	0.01563 B	0.0171 B	0.01623 B	0.01802 B	0.01555 B	0.01075 B
METALS	Vanadium	7440-62-2	mg/kg, DRY	0.4031	0.2439	0.439	0.632	1.279	0.4236	0.6915
METALS	Zinc	7440-66-6	mg/kg, DRY	63.48	44.43	42.5 M	39.87	47.57	45.35	49.55

Notes:

Chemical Groups

PEST = pesticides
PCB = polychlorinated biphenyls

Acronyms

ug/kg - wet wt. = micrograms per kilogram wet weight
mg/kg - dry wt. = milligrams per kilogram dry weight

Data Qualifiers

J The analyte was positively identified; the quantitation is an estimation.
R The data are unusable because of deficiencies in the ability to analyze the sample and meet QC criteria.
B The analyte was detected in an associated blank, as well as in the sample.
M A matrix effect was present.
ND The analyte was not detected. The associated numerical value is at or below the method detection limit (MDL).