

**Table 5-10**

**Human Health Risk Screening Evaluation for Contaminants in Surface Water Samples - WS-002**

*Bellows OU1 EE/CA, Bellows AFS, Hawaii*

Chemical Name	Chemical Class	Concentration in Surface Water (mg/L)	Kp (cm/hour)	Chemical Intake (mg/kg-day)				Oral RfD (mg/kg-day)	Oral SF (kg-day/mg)	Ingestion HQ	Dermal HQ	Ingestion ILCR	Dermal ILCR
				Ingestion (non-carcinogen exposure)	Dermal contact (non-carcinogen exposure)	Ingestion (carcinogen exposure)	Dermal contact (carcinogen exposure)						
Di-n-butylphthalate	SVOC	2.32E-03	3.30E-02	1.78E-06	4.15E-06	1.52E-07	3.55E-07	0.1	0.014	1.78E-05	4.15E-05	2.13E-09	4.98E-09
Endosulfan I	PEST/PC	1.30E-05	1.64E-05	9.96E-09	1.15E-11	8.53E-10	9.90E-13	0.006		1.66E-06	1.92E-09		
Aluminum	METALS	5.00E-02	1.00E-03	3.83E-05	2.71E-06	3.28E-06	2.32E-07	1		3.83E-05	2.71E-06		
Barium	METALS	1.67E-02	1.00E-03	1.28E-05	9.05E-07	1.10E-06	7.75E-08	0.07		1.83E-04	1.29E-05		
Manganese	METALS	8.52E-02	1.00E-03	6.53E-05	4.62E-06	5.59E-06	3.96E-07	0.0467		1.40E-03	9.88E-05		
Vanadium	METALS	5.00E-03	1.00E-03	3.83E-06	2.71E-07	3.28E-07	2.32E-08	0.007		5.47E-04	3.87E-05		

Chemical-specific HI	% Contribution	Chemical-specific ILCR	% Contribution
5.92E-05	2.49	7.11E-09	100.00
1.66E-06	0.07		
4.10E-05	1.72		
1.96E-04	8.22		
1.50E-03	62.88		
5.86E-04	24.62		

**Total Hazard Index** 2.38E-03 **Total Risk** 7.11E-09

EXPOSURE ASSUMPTIONS	
Exposure Setting	Recreational User
Exposure Case	RME
Surface Water Ingestion Rate - (L/day)	0.05
Exposed Skin Surface Area (cm2)	1360
Dermal permeability coefficient (cm/hr)	chemical-specific
Body Weight - (kilograms)	46.5
Exposure Time (hr/day)	2.6
Number of Days/Year Exposed	260
Number of Years Exposed	6
Averaging Time - Noncancer (yrs)	6
Averaging Time - Noncancer (yrs)	70
Ingestion (Noncancer) (L/kg-day)	7.66E-04
Ingestion (Cancer) (L/kg-day)	6.57E-05
Dermal (Noncancer) (cm2-hr/kg-day)	5.42E-02
Dermal (Cancer) (cm2-hr/kg-day)	4.64E-03