

TABLE 4-6

Statistical Summary of Chemicals Detected in Subsurface Soil (Landfill Materials) at Site LF01
 Bellows OU1 EE/CA, Bellows AFS, Hawaii

Chemical Group	Analyte	Units	Number of Detects	Number of Rejects	Total Number of Samples	Frequency of Detection ¹	Minimum MDL	Maximum MDL	Minimum Detected Value	Maximum Detected Value
VOC	1,2-DCB	mg/kg	2	--	7	29%	0.0001	0.0001	0.000175	0.0003
VOC	1,4-DCB	mg/kg	1	--	7	14%	0.0003	0.0003	0.0004	0.0004
VOC	Benzene	mg/kg	1	--	7	14%	0.0002	0.0003	0.0007	0.0007
VOC	m, p-Xylene	mg/kg	1	--	7	14%	0.0003	0.0004	0.001	0.001
VOC	TCE	mg/kg	1	--	7	14%	0.0003	0.0003	0.0012	0.0012
VOC	Toluene	mg/kg	3	--	7	43%	0.0002	0.0002	0.0003	0.0009
VOC	Trichlorofluoromethane	mg/kg	2	--	7	29%	0.0004	0.0004	0.0007	0.0021
TPH	TPH-Diesel	mg/kg	6	--	7	86%	8.8	8.8	2.1	48
TPH	TPH-Gasoline	mg/kg	3	--	7	43%	0.004	0.005	0.01	0.02
SVOC	3,3'-Dichlorobenzidine	mg/kg	--	7	7	--	--	--	--	--
SVOC	4-Chloroaniline	mg/kg	--	7	7	--	--	--	--	--
SVOC	Bis (2-ethylhexyl) phthalate	mg/kg	1	--	8	13%	0.05	0.8	0.28	0.28
SVOC	Butyl benzylphthalate	mg/kg	1	--	7	14%	0.04	0.04	0.64	0.64
PEST	4,4'-DDD	mg/kg	1	2	5	33%	0.00091	0.00096	0.061	0.061
PEST	4,4'-DDE	mg/kg	1	3	5	50%	0.00041	0.00041	0.17	0.17
PEST	4,4'-DDT	mg/kg	4	--	5	80%	0.0011	0.0011	0.007275	0.22
PEST	alpha-BHC	mg/kg	--	4	4	--	--	--	--	--
PEST	beta-BHC	mg/kg	--	4	4	--	--	--	--	--
PEST	Chlordane (Alpha)	mg/kg	3	--	4	75%	0.0006	0.0006	0.0022	0.019
PEST	Toxaphene	mg/kg	--	4	4	--	--	--	--	--
PCB	Aroclor-1016	mg/kg	1	--	4	25%	0.0079	0.0083	0.007	0.007
PCB	Aroclor-1242	mg/kg	1	--	5	20%	0.0094	0.0099	0.61	0.61
PCB	Aroclor-1260	mg/kg	2	--	5	40%	0.0032	0.038	0.0143	0.1
PAH	Anthracene	mg/kg	2	--	7	29%	0.001	0.01	0.007	0.06
PAH	Benzo (a) anthracene	mg/kg	6	--	8	75%	0.0135	0.8	0.0026	0.0588
PAH	Benzo (a) pyrene	mg/kg	6	--	8	75%	0.016	0.8	0.003025	0.123
PAH	Benzo (b) fluoranthene	mg/kg	6	--	8	75%	0.03	0.8	0.006975	0.103
PAH	Benzo (g,h,i) perylene	mg/kg	6	--	8	75%	0.04	0.8	0.0065	0.19
PAH	Benzo (k) fluoranthene	mg/kg	7	--	8	88%	0.8	0.8	0.002425	0.045
PAH	Chrysene	mg/kg	6	--	8	75%	0.01	0.8	0.00525	0.16
PAH	Dibenzo (a,h) anthracene	mg/kg	1	--	7	14%	0.003	0.035	0.086	0.086
PAH	Fluoranthene	mg/kg	5	--	8	63%	0.002	0.8	0.015	0.07
PAH	Indeno (1,2,3-c,d) pyrene	mg/kg	4	--	8	50%	0.006	0.8	0.015	0.068
PAH	Phenanthrene	mg/kg	6	--	8	75%	0.01	0.8	0.003	0.033
PAH	Pyrene	mg/kg	6	--	8	75%	0.01	0.8	0.00225	0.049
METALS	Aluminum	mg/kg	7	--	7	100%	--	--	5330	15600
METALS	Antimony	mg/kg	7	--	8	88%	0.57	0.57	0.52	16.7

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METALS	Arsenic	mg/kg	8	--	8	100%	--	--	9.6	54.9
METALS	Barium	mg/kg	7	--	7	100%	--	--	19	96
METALS	Beryllium	mg/kg	8	--	8	100%	--	--	0.11	0.24
METALS	Cadmium	mg/kg	8	--	8	100%	--	--	0.51	18.7
METALS	Calcium	mg/kg	7	--	7	100%	--	--	177000	330000
METALS	Chromium	mg/kg	8	--	8	100%	--	--	26.2	147
METALS	Cobalt	mg/kg	7	--	7	100%	--	--	5.1	19.2
METALS	Copper	mg/kg	8	--	8	100%	--	--	23.8	1600
METALS	Iron	mg/kg	7	--	7	100%	--	--	11100	109000
METALS	Lead	mg/kg	8	--	8	100%	--	--	59.9	1670
METALS	Magnesium	mg/kg	7	--	7	100%	--	--	4300	10200
METALS	Manganese	mg/kg	7	--	7	100%	--	--	177	1180
METALS	Mercury	mg/kg	5	--	8	63%	0.05	0.06	0.07	0.33
METALS	Nickel	mg/kg	8	--	8	100%	--	--	20.8	177
METALS	Potassium	mg/kg	7	--	7	100%	--	--	326	782
METALS	Selenium	mg/kg	1	--	8	13%	0.44	0.88	2.1	2.1
METALS	Silver	mg/kg	5	--	8	63%	0.32	0.34	0.44	3.8
METALS	Sodium	mg/kg	7	--	7	100%	--	--	286.5	1380
METALS	Thallium	mg/kg	3	--	7	43%	0.08	0.39	0.08	0.62
METALS	Vanadium	mg/kg	7	--	7	100%	--	--	12.7	44.2
METALS	Zinc	mg/kg	8	--	8	100%	--	--	70	1400
HERB	2,4,5-T	mg/kg	--	7	7	--	--	--	--	--
HERB	2,4,5-TP (Silvex)	mg/kg	--	7	7	--	--	--	--	--
HERB	2,4-D	mg/kg	--	7	7	--	--	--	--	--
HERB	2,4-DB	mg/kg	--	7	7	--	--	--	--	--
HERB	Dinoseb	mg/kg	--	7	7	--	--	--	--	--
HERB	MCPA	mg/kg	1	1	7	17%	3.6	3.8	9.8	9.8
HERB	MCP	mg/kg	--	7	7	--	--	--	--	--

Notes:

¹ Frequency of detection is based on number of detections divided by [total number of samples minus number of rejections].

Chemical Groups

VOC = volatile organic compounds
 TPH = total petroleum hydrocarbons
 SVOC = semivolatile organic compounds
 PEST = pesticides

PCB = polychlorinated biphenyls
 PAH = polynuclear aromatic hydrocarbons
 HERB = herbicides

Abbreviations

mg/kg = milligrams per kilogram
 MDL = method detection limit