

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
During the EE/CA Investigation
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-001	LF01-002	LF01-003	LF01-006	LF01-007	LF01-008	LF01-009	LF01-010	LF01-012			
Sample ID	LF01-SL001A	LF01-SL002A	LF01-SL003A	LF01-SL006A	LF01-SL007A	LF01-SL008A	LF01-SL009A	LF01-SL010A	LF01-SL012A			
Sampling Date	11/09/98	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98	11/12/98	11/11/98	11/11/98			
Depth (feet)	0-2	0-2	0-2	0-2	0-2	0-2	0-0.2	0-0.5	0-2			
Chemical Group	Analyte	CAS	Units									
TPH	TPH-Diesel	TPH-DIESEL	mg/kg	ND	2.9 F	3.9 F	5 F	2.9 F	2.3 F	53 F	46 F	R
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	4.19	ND
SVOC	Butyl benzylphthalate	85-68-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC	Di-n-octylphthalate	117-84-0	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC	Diethyl phthalate	84-66-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PEST	4,4'-DDD	72-54-8	mg/kg	ND	ND	ND	ND	0.0046 F	ND	0.0052 F	0.0014 F	0.00099 F
PEST	4,4'-DDE	72-55-9	mg/kg	---	ND	ND	ND	ND	ND	0.0016 F	ND	ND
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	mg/kg	0.0023 F	ND	ND	ND	ND	ND	---	ND	ND
PEST	4,4'-DDT	50-29-3	mg/kg	0.0067 F	R	R	R	R	R	0.0083 F	0.0014 F	0.0026 F
PEST	Aldrin	309-00-2	mg/kg	ND	0.00051 F	0.00079 F	0.0039 F	0.00037 F	0.00068 F	0.013 F	0.0052 F	0.00028 F
PEST	Chlordane (Alpha)	5103-71-9	mg/kg	R	ND	ND	ND	ND	ND	0.0017 F	ND	ND
PEST	Chlordane (Gamma)	5103-74-2	mg/kg	ND	ND	0.00042 F	ND	0.0015 F	ND	0.0016 F	0.0035 F	0.0013 F
PEST	Dieldrin	60-57-1	mg/kg	---	---	---	---	---	---	0.0022 F	---	---
PEST	Endosulfan I	959-98-8	mg/kg	ND	ND	ND	ND	0.00092 F	ND	0.0018 F	ND	0.0019 F
PEST	Endosulfan II	33213-65-9	mg/kg	ND	ND	ND	R	ND	ND	0.0023 F	0.01 F	0.0019 F
PEST	Endosulfan sulfate	1031-07-8	mg/kg	ND	0.0091 F	0.01 F	0.007 F	0.011 F	0.01 F	R	0.008 F	0.0089 F
PEST	Endrin	72-20-8	mg/kg	ND	ND	ND	ND	0.0041 F	ND	0.0031 F	0.0024 F	ND
PEST	Endrin aldehyde	7421-93-4	mg/kg	ND	ND	ND	ND	ND	ND	R	ND	ND
PEST	Heptachlor	76-44-8	mg/kg	ND	0.0019 F	0.0021 F	0.0014 F	0.00058 F	0.00064 F	0.013 F	0.0011 F	ND
PEST	Heptachlor epoxide	1024-57-3	mg/kg	ND	0.00047 F	ND	0.00097 F	0.00033 F	0.00099 F	0.015 F	0.0029 F	0.0012 F
PEST	Methoxychlor	72-43-5	mg/kg	0.018 F	ND	ND	ND	0.012 F	ND	0.0099 F	ND	0.0023 F
PEST	alpha-BHC	319-84-6	mg/kg	ND	0.00045 F	0.0049 F	ND	0.0013 F	0.00066 F	ND	0.004 F	0.00062 F
PEST	beta-BHC	319-85-7	mg/kg	0.0045 F	ND	ND	ND	0.0011 F	0.0032 F	0.011 F	0.0021 F	0.0017 F
PEST	delta-BHC	319-86-8	mg/kg	ND F =	0.0032 F	0.00027 F	0.00093 F	0.0079 F	ND	0.0087 F	0.0025 F	0.0041 F
PEST	gamma-BHC (Lindane)	58-89-9	mg/kg	ND	ND	ND	ND	0.003 F	ND	0.0058 F	0.00081 F	0.0013 F
PCB	Aroclor-1016	12674-11-2	mg/kg	ND	ND	ND	ND	ND	ND	R	ND	ND
PCB	Aroclor-1248	12672-29-6	mg/kg	ND DF	ND	ND	ND	ND	ND	R	ND	ND
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	ND	ND	ND	ND	ND	R	ND	ND
PAH	Acenaphthylene	208-96-8	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Anthracene	120-12-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Benzo (a) anthracene	56-55-3	mg/kg	0.0048 F	ND	ND	ND	ND	ND	0.0216	ND	0.121
PAH	Benzo (a) pyrene	50-32-8	mg/kg	0.0076 F	ND	ND	ND	ND	ND	0.0421	0.0043 F	0.165 M
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	0.0221	ND	ND	ND	ND	ND	0.0606	ND	0.192
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	0.021 F	ND	ND	ND	ND	0.008 F	0.129	0.007 F	0.165
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	0.005 F	ND	ND	ND	ND	ND	0.0212	0.0025 F	0.096
PAH	Chrysene	218-01-9	mg/kg	0.02 F	ND	ND	ND	ND	0.005 F	0.04 F	0.01 F	0.14 M
PAH	Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Fluoranthene	206-44-0	mg/kg	ND	ND	ND	ND	ND	ND	0.046 F	ND	0.229
PAH	Fluorene	86-73-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	0.047 J	ND	0.006 F	ND	ND	0.025 F	0.308 J	0.016 F	0.313 M
PAH	Phenanthrene	85-01-8	mg/kg	ND	ND	ND	ND	ND	ND	0.01 F	ND	0.018 F
PAH	Pyrene	129-00-0	mg/kg	0.009 F	ND	ND	ND	ND	ND	0.123 F	0.006 F	0.216 M

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
 During the EE/CA Investigation
 Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-001	LF01-002	LF01-003	LF01-006	LF01-007	LF01-008	LF01-009	LF01-010	LF01-012			
Sample ID	LF01-SL001A	LF01-SL002A	LF01-SL003A	LF01-SL006A	LF01-SL007A	LF01-SL008A	LF01-SL009A	LF01-SL010A	LF01-SL012A			
Sampling Date	11/09/98	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98	11/12/98	11/11/98	11/11/98			
Depth (feet)	0-2	0-2	0-2	0-2	0-2	0-2	0-0.2	0-0.5	0-2			
Chemical Group	Analyte	CAS	Units									
METALS	Aluminum	7429-90-5	mg/kg	34200 M	4140	8730	8010	14100	8650	14400	12900	6900 M
METALS	Antimony	7440-36-0	mg/kg	1.8 M	ND	ND	ND	ND	ND	2.6 F	ND	ND
METALS	Arsenic	7440-38-2	mg/kg	71.8 M	6.7	15.5	13.6	22.7	19.4	22.6	30.5	13.1 M
METALS	Barium	7440-39-3	mg/kg	61.8	7.2	12.4	10	14.2	16.6	58.9	17.3	21.4
METALS	Beryllium	7440-41-7	mg/kg	0.81 F	ND	0.18 F	0.17 F	0.23 F	0.22 F	0.25 F	0.25 F	0.14 F
METALS	Cadmium	7440-43-9	mg/kg	1.2	ND	0.21 F	0.14 F	0.37 F	0.31 F	1.8	0.41 F	0.8 M
METALS	Calcium	7440-70-2	mg/kg	154000 M	333000	281000	307000	295000	281000	101000	202000	317000 M
METALS	Chromium	7440-47-3	mg/kg	170 M	22.7 F	41.7	38.6	57.2	43.5	73.5	60.2	33.2
METALS	Cobalt	7440-48-4	mg/kg	25.7	2.3 F	6.1 F	4.9 F	8.3 F	7.8 F	12.4 F	8.5 F	5.7 F
METALS	Copper	7440-50-8	mg/kg	43.3 M	6.2	13.7	8.8	17.6	19.7	110	18.7	30.8
METALS	Iron	7439-89-6	mg/kg	55800 M	5670	12400	10300	17800	15100	28100 J	17100	14000 M
METALS	Lead	7439-92-1	mg/kg	39.9 M	4.2 F	4.7 F	2.1 F	18	5.4 F	253	13.9	230 M
METALS	Magnesium	7439-95-4	mg/kg	4540 M	7570	5720	6650	7860	6330	6760	4740	6920 M
METALS	Manganese	7439-96-5	mg/kg	624 M	147	168	192	212	273	428	302	245.46 M
METALS	Mercury	7439-97-6	mg/kg	0.16	ND	ND	ND	ND	ND	0.29	0.11 F	ND
METALS	Nickel	7440-02-0	mg/kg	107 M	12.1	28.2	27.5	45.8	40.2	55.4	46.2	25.1
METALS	Potassium	7440-09-7	mg/kg	1380 M	141 F	125 F	155 F	794 F	1090	1260	1280	263 F
METALS	Silver	7440-22-4	mg/kg	0.45 F	ND	ND	ND	ND	ND	0.96 F	ND	ND
METALS	Sodium	7440-23-5	mg/kg	543 M	1400	795	822	2360	1380	3320	1100	801
METALS	Thallium	7440-28-0	mg/kg	ND	1.1 F	1.5 F	ND	1.5 F	ND	ND	ND	ND
METALS	Vanadium	7440-62-2	mg/kg	112 M	16.2	32.6	25.5	43	31.9	49.1	40.3	22.9
METALS	Zinc	7440-66-6	mg/kg	81 M	8.8	19.5	15.2	44.7	81.6	370	34.8	94.7
HERB	2,4-D	94-75-7	mg/kg	ND	0.026 F	0.026 F	ND	0.067 F	0.027 F	ND	0.048 F	0.048 M
HERB	Dalapon	75-99-0	mg/kg	ND	ND	ND	ND	ND	1.3 J	ND	0.94 J	2.9 M
HERB	MCPA	94-74-6	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
HERB	MCPP	93-65-2	mg/kg	4 F	ND	ND	ND	ND	2.3 F	ND	3.6 F	ND

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
During the EE/CA Investigation
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-013	LF01-014	LF01-015	LF01-017	LF01-018	LF01-019	LF01-020	LF01-022	LF01-023			
Sample ID	LF01-SL013A	LF01-SL014A	LF01-SL015A	LF01-SL017A	LF01-SL018A	LF01-SL019A	LF01-SL020A	LF01-SL022A	LF01-SL023A			
Sampling Date	11/10/98	11/10/98	11/10/98	11/11/98	11/10/98	11/10/98	11/10/98	11/11/98	11/10/98			
Depth (feet)	0-2	0-2	0-2	0-1	0-2	0-2	0-2	0-2	0-2			
Chemical Group	Analyte	CAS	Units									
TPH	TPH-Diesel	TPH-DIESEL	mg/kg	ND	9.3 F	12 F	5.5 F	8.4 F	10 F	29.5 F	2.8 F	13.5 F
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	ND	ND	ND	6.97	ND	ND	ND	ND
SVOC	Butyl benzylphthalate	85-68-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC	Di-n-octylphthalate	117-84-0	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC	Diethyl phthalate	84-66-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PEST	4,4'-DDD	72-54-8	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	4,4'-DDE	72-55-9	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	4,4'-DDT	50-29-3	mg/kg	R	R	R	R	R	R	R	R	R
PEST	Aldrin	309-00-2	mg/kg	R	R	R	0.00094 F	R	R	R	0.0008 F	R
PEST	Chlordane (Alpha)	5103-71-9	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	Chlordane (Gamma)	5103-74-2	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	Dieldrin	60-57-1	mg/kg	---	---	---	---	---	---	---	---	---
PEST	Endosulfan I	959-98-8	mg/kg	R	R	R	0.0012 F	R	R	R	ND	R
PEST	Endosulfan II	33213-65-9	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	Endosulfan sulfate	1031-07-8	mg/kg	R	R	R	0.009 F	R	R	R	0.0018 F	R
PEST	Endrin	72-20-8	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	Endrin aldehyde	7421-93-4	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	Heptachlor	76-44-8	mg/kg	R	R	R	0.00092 F	R	R	R	0.00081 F	R
PEST	Heptachlor epoxide	1024-57-3	mg/kg	R	R	R	0.00035 F	R	R	R	ND	R
PEST	Methoxychlor	72-43-5	mg/kg	R	R	R	ND	R	R	R	ND	R
PEST	alpha-BHC	319-84-6	mg/kg	R	R	R	0.00056 F	R	R	R	ND	R
PEST	beta-BHC	319-85-7	mg/kg	R	R	R	0.00061 F	R	R	R	0.00076 F	R
PEST	delta-BHC	319-86-8	mg/kg	R	R	R	0.00026 F	R	R	R	0.003 F	R
PEST	gamma-BHC (Lindane)	58-89-9	mg/kg	R	R	R	0.00096 F	R	R	R	ND	R
PCB	Aroclor-1016	12674-11-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB	Aroclor-1248	12672-29-6	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Acenaphthylene	208-96-8	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Anthracene	120-12-7	mg/kg	ND	ND	ND	ND	ND	0.005 F	0.0055 F	ND	0.011 F
PAH	Benzo (a) anthracene	56-55-3	mg/kg	0.0159	0.0304 J	0.027 J	0.0052 F	0.0152 J	0.156	0.1345 J	ND	0.09365 J
PAH	Benzo (a) pyrene	50-32-8	mg/kg	0.0255	0.0526	0.0448	0.0033 F	0.0322 J	0.118	0.10395 J	ND	0.165 D J
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	0.0439	0.0651	0.0742	ND	0.0528	0.133	0.1246 J	ND	0.176
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	0.031 F	0.1	0.056	ND	0.065 J	0.095	0.1 J	ND	0.174 D J
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	0.0165	0.0252	0.0256	ND	0.0168	0.0648	0.05425 J	ND	0.0811
PAH	Chrysene	218-01-9	mg/kg	0.04 F	0.09 F	0.065 F	0.01 F	0.05 F	0.22	0.225 J	ND	0.17 J
PAH	Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	ND	ND	ND	ND	0.01025 D F	ND	ND
PAH	Fluoranthene	206-44-0	mg/kg	0.039 F	0.0995 F	0.057 F	0.022 F	0.014 F	0.307	0.22425 D	ND	0.183 D
PAH	Fluorene	86-73-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	0.061 J	0.183 J	0.107 J	ND	0.139 J	0.18 J	0.213 J	ND	0.3905 D J
PAH	Phenanthrene	85-01-8	mg/kg	ND	0.01 F	0.016 F	0.021 F	0.004 F	0.08 F	0.049 F	ND	0.072 F
PAH	Pyrene	129-00-0	mg/kg	0.045 F	0.109 F	0.053 F	0.015 F	0.021 F	0.31	0.2365 D	ND	0.20575 F

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
 During the EE/CA Investigation
 Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-013	LF01-014	LF01-015	LF01-017	LF01-018	LF01-019	LF01-020	LF01-022	LF01-023			
Sample ID	LF01-SL013A	LF01-SL014A	LF01-SL015A	LF01-SL017A	LF01-SL018A	LF01-SL019A	LF01-SL020A	LF01-SL022A	LF01-SL023A			
Sampling Date	11/10/98	11/10/98	11/10/98	11/11/98	11/10/98	11/10/98	11/10/98	11/11/98	11/10/98			
Depth (feet)	0-2	0-2	0-2	0-1	0-2	0-2	0-2	0-2	0-2			
Chemical Group	Analyte	CAS	Units									
METALS	Aluminum	7429-90-5	mg/kg	4430	17800	15200	15800	10000	10600	6815 J	14500	19350
METALS	Antimony	7440-36-0	mg/kg	ND	2.6 F	2.6 F	ND	2.6 F	ND	2.05 F	ND	3.95 F
METALS	Arsenic	7440-38-2	mg/kg	9.4	21	15.4	26.7	20.7	12.7	12.4 J	21.3	12.95
METALS	Barium	7440-39-3	mg/kg	19.1	138	178	17.6	46.4	25	29.35	15.1	80.75 J
METALS	Beryllium	7440-41-7	mg/kg	0.11 F	0.46 F	0.42 F	0.26 F	0.2 F	0.21 F	0.14 F	0.26 F	0.31 F
METALS	Cadmium	7440-43-9	mg/kg	0.49 F	1.5	1.6	0.38 F	1.6	0.36 F	0.825	0.32 F	1.75
METALS	Calcium	7440-70-2	mg/kg	342000	247000	214000	254000	285000	293000	283500	299000	227000
METALS	Chromium	7440-47-3	mg/kg	23.8	95.7	87.5	75.8	49.4	48.8	34.75	63.1	76.4
METALS	Cobalt	7440-48-4	mg/kg	4.6 F	17.2	17.3	10.7 F	8.3 F	7.8 F	6.4 F	11	15
METALS	Copper	7440-50-8	mg/kg	21	66.4	125	79	68.1	22	39.75	14.2	117.9 J
METALS	Iron	7439-89-6	mg/kg	7840	35200	27600	18300	16400	14000	15900	18700	38450
METALS	Lead	7439-92-1	mg/kg	78.8	431	738	5.4 F	249	108	114.6 J	1.4 F	300
METALS	Magnesium	7439-95-4	mg/kg	7050	7790	6870	7000	12000	6440	6505	4230	11850
METALS	Manganese	7439-96-5	mg/kg	209	656	713	329	261	312	236	312	424
METALS	Mercury	7439-97-6	mg/kg	ND	0.15	0.15	ND	0.13	ND	0.0375 D F	ND	0.155
METALS	Nickel	7440-02-0	mg/kg	16.5	71.1	63.5	55.7	29.1	35.9	54.95 J	57.8	52.85
METALS	Potassium	7440-09-7	mg/kg	218 F	1500	786	1380	785	428 F	420 F	307 F	2190
METALS	Silver	7440-22-4	mg/kg	ND	0.38 F	0.49 F	ND	0.6 F	ND	ND	ND	0.645 F
METALS	Sodium	7440-23-5	mg/kg	1000	1680	722	339	1680	718	763	276	1475
METALS	Thallium	7440-28-0	mg/kg	ND	ND	1.1 F	1 F	ND	ND	ND	ND	ND
METALS	Vanadium	7440-62-2	mg/kg	16.6	55.3	56.8	39.9	34.1	33.7	23.95	44.3	66.95
METALS	Zinc	7440-66-6	mg/kg	86.7	341	590	33.8	413	58.5	135.5	24	390.5
HERB	2,4-D	94-75-7	mg/kg	ND	ND	ND	R	ND	ND	ND	0.029 F	ND
HERB	Dalapon	75-99-0	mg/kg	ND	ND	ND	2.4 J	ND	ND	ND	2.6 J	ND
HERB	MCPA	94-74-6	mg/kg	4.1 F	4.2 F	6.9 F	11 J	ND	5.8 F	6.9 D J	ND	ND
HERB	MCPP	93-65-2	mg/kg	ND	ND	ND	R	ND	ND	ND	ND	ND

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
During the EE/CA Investigation
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-024	LF01-025	LF01-027	LF01-028	LF01-029	LF01-030	LF01-032	LF01-033	LF01-034			
Sample ID	LF01-SL024A	LF01-SL025A	LF01-SL027A	LF01-SL028A	LF01-SL029A	LF01-SL030A	LF01-SL032A	LF01-SL033A	LF01-SL034A			
Sampling Date	11/10/98	11/10/98	11/11/98	11/10/98	11/10/98	11/10/98	11/10/98	11/10/98	11/09/98			
Depth (feet)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2			
Chemical Group	Analyte	CAS	Units									
TPH	TPH-Diesel	TPH-DIESEL	mg/kg	2.6 F	14 F	3.4 F	5.3 F	4.3 F	9.025 DF	5.9 F	10 F	3.7 F
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	0.66 F	ND	ND	ND	ND	ND	ND	ND
SVOC	Butyl benzylphthalate	85-68-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.06 F
SVOC	Di-n-octylphthalate	117-84-0	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC	Diethyl phthalate	84-66-2	mg/kg	ND	ND	0.14 F	ND	ND	ND	ND	ND	ND
PEST	4,4'-DDD	72-54-8	mg/kg	R	R	R	R	R	R	R	R	ND
PEST	4,4'-DDE	72-55-9	mg/kg	R	R	ND	R	R	R	R	R	---
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	mg/kg	R	R	ND	R	R	R	R	R	0.0064 F
PEST	4,4'-DDT	50-29-3	mg/kg	R	R	ND	R	R	R	R	R	0.0039 F
PEST	Aldrin	309-00-2	mg/kg	R	R	0.00059 F	R	R	R	R	R	0.0033 F
PEST	Chlordane (Alpha)	5103-71-9	mg/kg	R	R	R	R	R	R	R	R	0.001 F
PEST	Chlordane (Gamma)	5103-74-2	mg/kg	R	R	0.00098 F	R	R	R	R	R	ND
PEST	Dieldrin	60-57-1	mg/kg	---	---	---	---	---	---	---	---	---
PEST	Endosulfan I	959-98-8	mg/kg	---	R	ND	R	R	R	R	R	0.001 F
PEST	Endosulfan II	33213-65-9	mg/kg	R	R	R	R	R	R	R	R	ND
PEST	Endosulfan sulfate	1031-07-8	mg/kg	R	R	0.0022 F	R	R	R	R	R	0.0026 F
PEST	Endrin	72-20-8	mg/kg	R	R	R	R	R	R	R	R	ND
PEST	Endrin aldehyde	7421-93-4	mg/kg	R	R	ND	R	R	R	R	R	ND
PEST	Heptachlor	76-44-8	mg/kg	R	R	0.00092 F	R	R	R	R	R	0.013 F
PEST	Heptachlor epoxide	1024-57-3	mg/kg	R	R	0.00033 F	R	R	R	R	R	ND
PEST	Methoxychlor	72-43-5	mg/kg	R	R	ND	R	R	R	R	R	ND
PEST	alpha-BHC	319-84-6	mg/kg	R	R	0.00093 F	R	R	R	R	R	0.00056 F
PEST	beta-BHC	319-85-7	mg/kg	R	R	0.00067 F	R	R	R	R	R	0.0023 F
PEST	delta-BHC	319-86-8	mg/kg	R	R	0.00048 F	R	R	R	R	R	ND
PEST	gamma-BHC (Lindane)	58-89-9	mg/kg	R	R	ND	R	R	R	R	R	0.0028 F
PCB	Aroclor-1016	12674-11-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.071 F
PCB	Aroclor-1248	12672-29-6	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.062 F
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	0.25 F	ND	ND	ND	0.06055 DF	ND	ND	ND
PAH	Acenaphthylene	208-96-8	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Anthracene	120-12-7	mg/kg	ND	ND	ND	ND	ND	0.00675 DF	ND	ND	ND
PAH	Benzo (a) anthracene	56-55-3	mg/kg	0.0046 F	0.022 J	ND	ND	ND	0.0303 DJ	ND	0.0094 F	0.003 F
PAH	Benzo (a) pyrene	50-32-8	mg/kg	0.006 F	0.0216	ND	ND	ND	0.03455	ND	0.0183	0.0269 F
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	ND	0.0322	ND	ND	ND	0.0686 J	ND	0.035 J	0.0064 F
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	0.009 F	0.028 F	ND	ND	ND	0.0495 D	ND	0.044 F	0.006 F
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	0.0034 F	0.0122	ND	ND	ND	0.0242 J	ND	0.008 F	0.0024 F
PAH	Chrysene	218-01-9	mg/kg	0.01 F	0.04 F	ND	ND	ND	0.06 F	ND	0.04 F	0.01 F
PAH	Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Fluoranthene	206-44-0	mg/kg	ND	0.021 F	ND	ND	ND	0.045 F	ND	0.011 F	ND
PAH	Fluorene	86-73-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	0.012 F	0.046 J	ND	ND	ND	0.098 J	ND	0.077 J	0.009 F
PAH	Phenanthrene	85-01-8	mg/kg	ND	0.006 F	ND	ND	ND	0.0125 F	ND	0.006 F	ND
PAH	Pyrene	129-00-0	mg/kg	0.006 F	0.02 F	ND	ND	ND	0.0415 F	ND	0.012 F	0.032 F

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
 During the EE/CA Investigation
 Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-024	LF01-025	LF01-027	LF01-028	LF01-029	LF01-030	LF01-032	LF01-033	LF01-034			
Sample ID	LF01-SL024A	LF01-SL025A	LF01-SL027A	LF01-SL028A	LF01-SL029A	LF01-SL030A	LF01-SL032A	LF01-SL033A	LF01-SL034A			
Sampling Date	11/10/98	11/10/98	11/11/98	11/10/98	11/10/98	11/10/98	11/10/98	11/10/98	11/09/98			
Depth (feet)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2			
Chemical Group	Analyte	CAS	Units									
METALS	Aluminum	7429-90-5	mg/kg	14800	16100	15700	18300	15000	9635	11500	13600	6900
METALS	Antimony	7440-36-0	mg/kg	7.1	9.7	ND	ND	3.4 F	10	ND	2.2 F	ND
METALS	Arsenic	7440-38-2	mg/kg	15	18	2 F	15.6	11.3	19.15 J	14.5	10.6	19.4
METALS	Barium	7440-39-3	mg/kg	100	168	13.8	16.7	84.7	134.5 J	12.1	47.9	21.1
METALS	Beryllium	7440-41-7	mg/kg	0.2 F	0.28 F	0.26 F	0.28 F	0.24 F	ND	0.18 F	0.25 F	0.15 F
METALS	Cadmium	7440-43-9	mg/kg	5.8	6.2	0.45 F	0.47 F	2.7	42.1 J	0.33 F	1.6	0.52 F
METALS	Calcium	7440-70-2	mg/kg	232000	230000	280000	290000	254000	183000	296000	265000	319000
METALS	Chromium	7440-47-3	mg/kg	58.1	85.4	67	78.8	67.3	61.3	47.5	56.2	32.2
METALS	Cobalt	7440-48-4	mg/kg	13.1	13.9	10.8 F	13.6	12.7	31.55	8.7 F	11.3	6.5 F
METALS	Copper	7440-50-8	mg/kg	617	279	14.6	19.2	172	531.5	10.4	100	28
METALS	Iron	7439-89-6	mg/kg	43600	50200	18400	22300	31300	162000	14000	28900	14500
METALS	Lead	7439-92-1	mg/kg	880	1600	1.9 F	8.1	693	1740 J	4.1 F	200	82.1
METALS	Magnesium	7439-95-4	mg/kg	9200	9780	5300	5950	11300	5370	3880	11300	3900
METALS	Manganese	7439-96-5	mg/kg	491	631	316	361	395	961.5	240	355	193
METALS	Mercury	7439-97-6	mg/kg	ND	0.11	ND	ND	0.11	0.52 J	ND	0.1 F	ND
METALS	Nickel	7440-02-0	mg/kg	45.7	152	61.7	66.8	45.4	84.65	44.4	40.5	28.6
METALS	Potassium	7440-09-7	mg/kg	2210	2090	208 F	625 F	2180	913.5 J	326 F	1790	434 F
METALS	Silver	7440-22-4	mg/kg	2.7	3.1	ND	ND	0.53 F	4 D	ND	0.56 F	0.46 F
METALS	Sodium	7440-23-5	mg/kg	1350	1370	259	312	1070	726.5 J	254	1460	311
METALS	Thallium	7440-28-0	mg/kg	0.98 F	ND	1.4 F	ND	ND	ND	ND	ND	ND
METALS	Vanadium	7440-62-2	mg/kg	37.4	45.4	40.2	52	44.9	13.45	32.3	51.4	25.8
METALS	Zinc	7440-66-6	mg/kg	1070	1110	23.5	34.8	340	1365 J	21.6	395	118
HERB	2,4-D	94-75-7	mg/kg	ND	ND	0.048 F	ND	ND	ND	ND	ND	ND
HERB	Dalapon	75-99-0	mg/kg	2 J	ND	ND	ND	ND	ND	ND	ND	ND
HERB	MCPA	94-74-6	mg/kg	5 F	ND	7.8 F	ND	ND	8.9 D	7.9 F	8.2 F	ND
HERB	MCPP	93-65-2	mg/kg	ND	ND	12 J	ND	ND	ND	ND	ND	ND

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
During the EE/CA Investigation
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-035	LF01-037	LF01-038	LF01-039	LF01-040	LF01-041	LF01-042	LF01-043			
Sample ID	LF01-SL035A	LF01-SL037A	LF01-SL038A	LF01-SL039A	LF01-SL040A	LF01-SL041A	LF01-SL042A	LF01-SL043A			
Sampling Date	11/09/98	11/10/98	11/09/98	11/09/98	11/09/98	11/10/98	11/09/98	11/09/98			
Depth (feet)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2			
Chemical Group	Analyte	CAS	Units								
TPH	TPH-Diesel	TPH-DIESEL	mg/kg	8.8 F	ND	ND	19 F	39.5 F	ND	9.4 F	8.6 F
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	ND	6.82	ND	0.0425 DF	ND	ND	ND
SVOC	Butyl benzylphthalate	85-68-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
SVOC	Di-n-octylphthalate	117-84-0	mg/kg	ND	ND	0.04 F	ND	ND	ND	ND	ND
SVOC	Diethyl phthalate	84-66-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
PEST	4,4'-DDD	72-54-8	mg/kg	0.0018 F	R	0.0019 F	0.003 F	0.01005 F	R	ND	0.0036 F
PEST	4,4'-DDE	72-55-9	mg/kg	---	R	---	---	---	R	---	---
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	mg/kg	0.021 F	R	R	0.026 F	R	R	0.012 F	0.0063 F
PEST	4,4'-DDT	50-29-3	mg/kg	0.018 F	R	0.016 F	0.021 F	0.027 F	R	0.0045 F	0.019 F
PEST	Aldrin	309-00-2	mg/kg	0.00068 F	R	0.00056 F	0.0027 F	ND	R	0.00044 F	0.00022 F
PEST	Chlordane (Alpha)	5103-71-9	mg/kg	0.0053 F	R	0.0011 F	R	0.012 F	R	0.0052 F	R
PEST	Chlordane (Gamma)	5103-74-2	mg/kg	ND	R	ND	R	0.00715 F	R	0.004 F	ND
PEST	Dieldrin	60-57-1	mg/kg	---	---	---	---	---	---	---	---
PEST	Endosulfan I	959-98-8	mg/kg	0.0018 F	R	ND	0.0059 F	R	R	0.00063 F	R
PEST	Endosulfan II	33213-65-9	mg/kg	ND	R	ND	ND	0.0065 F	R	ND	ND
PEST	Endosulfan sulfate	1031-07-8	mg/kg	0.0052 F	R	0.0019 F	ND	0.013 F	R	0.0012 F	0.0022 F
PEST	Endrin	72-20-8	mg/kg	0.0045 F	R	ND	ND	0.0078 F	R	ND	ND
PEST	Endrin aldehyde	7421-93-4	mg/kg	ND	R	ND	ND	0.0125 F	R	ND	ND
PEST	Heptachlor	76-44-8	mg/kg	0.0069 F	R	0.0026 F	0.0031 F	R	R	0.00036 F	0.00041 F
PEST	Heptachlor epoxide	1024-57-3	mg/kg	ND	R	ND	ND	0.0018 F	R	ND	ND
PEST	Methoxychlor	72-43-5	mg/kg	0.0032 F	R	ND	ND	ND	R	0.0056 F	0.0017 F
PEST	alpha-BHC	319-84-6	mg/kg	0.00051 F	R	0.00042 F	0.0013 F	ND	R	ND	ND
PEST	beta-BHC	319-85-7	mg/kg	0.0016 F	R	0.00078 F	0.0026 F	0.0245 F	R	0.001 F	ND
PEST	delta-BHC	319-86-8	mg/kg	0.00053 F	R	ND	0.0006 F	ND	R	ND	ND
PEST	gamma-BHC (Lindane)	58-89-9	mg/kg	0.0014 F	R	ND	0.0019 F	0.0022 F	R	0.0004 F	ND
PCB	Aroclor-1016	12674-11-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
PCB	Aroclor-1248	12672-29-6	mg/kg	ND	ND	ND	ND	4 F	ND	ND	ND
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	ND	ND	0.18 F	ND	ND	ND	ND
PAH	Acenaphthylene	208-96-8	mg/kg	ND	ND	ND	ND	0.0315 D F	ND	ND	ND
PAH	Anthracene	120-12-7	mg/kg	0.005 F	ND	0.005 F	ND	0.035 F	ND	ND	ND
PAH	Benzo (a) anthracene	56-55-3	mg/kg	0.131	0.0039 F	0.0212 J	0.0174	0.02195 J	0.0027 F	ND	0.0055 F
PAH	Benzo (a) pyrene	50-32-8	mg/kg	0.101	0.0044 F	0.0173	0.0291 J	0.0282 J	0.004 F	0.0032 F	ND
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	0.438	0.0164	0.0356	0.072	0.06435 D J	0.0066 F	ND	ND
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	0.08	0.007 F	0.019 F	0.041 F	0.041 F	0.005 F	0.038 F	0.015 F
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	0.117	0.0046 F	0.0142	0.0192	0.0136 D	0.0023 F	ND	ND
PAH	Chrysene	218-01-9	mg/kg	0.35	0.01 F	0.07 F	0.05 F	0.43 F	0.01 F	0.004 F	0.01 F
PAH	Dibenzo (a,h) anthracene	53-70-3	mg/kg	0.027	ND	ND	ND	0.111 D F	ND	ND	0.011 F
PAH	Fluoranthene	206-44-0	mg/kg	0.335	0.006 F	0.139 F	0.047 F	0.296 F	ND	ND	0.007 F
PAH	Fluorene	86-73-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	0.11	0.015 F	0.031 F	0.071 J	0.0715 D J	0.011 F	0.013 F	0.01 F
PAH	Phenanthrene	85-01-8	mg/kg	0.141 F	0.002 F	0.05 F	0.016 F	0.02775 F	ND	ND	0.002 F
PAH	Pyrene	129-00-0	mg/kg	0.242 J	0.007 F	0.09 F	0.034 F	0.3015 F	0.005 F	0.07 F	0.006 F

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
 During the EE/CA Investigation
 Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-035	LF01-037	LF01-038	LF01-039	LF01-040	LF01-041	LF01-042	LF01-043			
Sample ID	LF01-SL035A	LF01-SL037A	LF01-SL038A	LF01-SL039A	LF01-SL040A	LF01-SL041A	LF01-SL042A	LF01-SL043A			
Sampling Date	11/09/98	11/10/98	11/09/98	11/09/98	11/09/98	11/10/98	11/09/98	11/09/98			
Depth (feet)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2			
Chemical Group	Analyte	CAS	Units								
METALS	Aluminum	7429-90-5	mg/kg	11700	9620	12000	13800	19900	11000	8800	12400
METALS	Antimony	7440-36-0	mg/kg	3.5 F	ND	2.4 F	9.7	19.85	2 F	14.3	ND
METALS	Arsenic	7440-38-2	mg/kg	20.5	9.1	6.7	17.6	19.9 J	12.8	25.1	30.2
METALS	Barium	7440-39-3	mg/kg	37.1	27.7	33.9	57.9	142.5	27.1	90.1	20.5
METALS	Beryllium	7440-41-7	mg/kg	0.17 F	0.21 F	0.18 F	0.23 F	ND	0.19 F	0.18 F	0.26 F
METALS	Cadmium	7440-43-9	mg/kg	1.6	0.59	0.99	2	9.1	0.79	3	0.35 F
METALS	Calcium	7440-70-2	mg/kg	280000	287000	271000	281000	154500	302000	248000	291000
METALS	Chromium	7440-47-3	mg/kg	42.9	39.1	48.7	59.2	108.5	49	50.3	53.5
METALS	Cobalt	7440-48-4	mg/kg	9.5 F	8.5 F	8.8 F	11.5	26.95	9.3 F	14.2	9.2 F
METALS	Copper	7440-50-8	mg/kg	1190	25.2	58.8	155	751.5 J	42.4	272	17.9
METALS	Iron	7439-89-6	mg/kg	30900	15400	22300	35200	174500	17800	67900	17600
METALS	Lead	7439-92-1	mg/kg	218	93.1	161	728	1640 J	121	611	18.1
METALS	Magnesium	7439-95-4	mg/kg	5280	5020	10600	9340	7595	6630	7520	3520
METALS	Manganese	7439-96-5	mg/kg	329	202	279	454	1285	254	517	201
METALS	Mercury	7439-97-6	mg/kg	0.12	0.07 F	0.23	0.46	1.175 J	0.07 F	0.1 F	0.07 F
METALS	Nickel	7440-02-0	mg/kg	38	33.7	30.2	42.2	97.6	38.2	49.9	45
METALS	Potassium	7440-09-7	mg/kg	939	674	1280	947	1510	645	898	459 F
METALS	Silver	7440-22-4	mg/kg	0.49 F	ND	0.39 F	0.64 F	3.1 F	0.32 F	1.1	ND
METALS	Sodium	7440-23-5	mg/kg	649	507	1460	1180	1007.5	706	1310	250
METALS	Thallium	7440-28-0	mg/kg	ND	ND	ND	ND	ND	0.97 F	ND	ND
METALS	Vanadium	7440-62-2	mg/kg	36.7	36.9	41.5	43.6	47.25	36.2	30.1	40.7
METALS	Zinc	7440-66-6	mg/kg	284	126	206	444	2615 J	154	624	32.6
HERB	2,4-D	94-75-7	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
HERB	Dalapon	75-99-0	mg/kg	ND	3.1 J	ND	ND	ND	ND	ND	ND
HERB	MCPA	94-74-6	mg/kg	ND	10 F	ND	ND	ND	ND	ND	ND
HERB	MCPP	93-65-2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
During the EE/CA Investigation
Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-045	LF01-048	LF01-049	LF01-051	LF01-052	LF01-053	LF01-054
Sample ID	.F01-SL045A	LF01-SL048A	LF01-SL049A	LF01-SL051A	LF01-SL052A	LF01-SL053A	LF01-SL054A
Sampling Date	11/10/98	11/11/98	11/09/98	11/12/98	11/12/98	11/12/98	11/17/98
Depth (feet)	0-2	0-0.3	0-2	0-0.3	0-0.3	0-0.3	0-2
Chemical Group	Analyte	CAS	Units				
TPH	TPH-Diesel	TPH-DIESEL	mg/kg	2.6 F	19	15 F	---
SVOC	Bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND	ND	ND	---
SVOC	Butyl benzylphthalate	85-68-7	mg/kg	ND	ND	ND	---
SVOC	Di-n-octylphthalate	117-84-0	mg/kg	ND	ND	ND	---
SVOC	Diethyl phthalate	84-66-2	mg/kg	ND	ND	ND	---
PEST	4,4'-DDD	72-54-8	mg/kg	R	R	0.0024 F	---
PEST	4,4'-DDE	72-55-9	mg/kg	R	ND	---	---
PEST	4,4'-DDE/Dieldrin	72-55-9/60-57-1	mg/kg	R	ND	0.017 F	---
PEST	4,4'-DDT	50-29-3	mg/kg	R	R	0.016 F	---
PEST	Aldrin	309-00-2	mg/kg	R	0.00084 F	0.00036 F	---
PEST	Chlordane (Alpha)	5103-71-9	mg/kg	R	0.00098 F	0.0052 F	---
PEST	Chlordane (Gamma)	5103-74-2	mg/kg	R	R	0.0057 F	---
PEST	Dieldrin	60-57-1	mg/kg	---	---	---	---
PEST	Endosulfan I	959-98-8	mg/kg	R	ND	0.0019 F	---
PEST	Endosulfan II	33213-65-9	mg/kg	R	R	ND	---
PEST	Endosulfan sulfate	1031-07-8	mg/kg	R	0.0018 F	ND	---
PEST	Endrin	72-20-8	mg/kg	R	ND	ND	---
PEST	Endrin aldehyde	7421-93-4	mg/kg	R	ND	ND	---
PEST	Heptachlor	76-44-8	mg/kg	R	0.00031 F	0.006 F	---
PEST	Heptachlor epoxide	1024-57-3	mg/kg	R	0.0019 F	ND	---
PEST	Methoxychlor	72-43-5	mg/kg	R	ND	ND	---
PEST	alpha-BHC	319-84-6	mg/kg	R	0.0019 F	0.00063 F	---
PEST	beta-BHC	319-85-7	mg/kg	R	0.001 F	0.0009 F	---
PEST	delta-BHC	319-86-8	mg/kg	R	0.0018 F	ND	---
PEST	gamma-BHC (Lindane)	58-89-9	mg/kg	R	0.00067 F	0.0013 F	---
PCB	Aroclor-1016	12674-11-2	mg/kg	ND	ND	0.05 F	ND
PCB	Aroclor-1248	12672-29-6	mg/kg	ND	ND	ND	ND
PCB	Aroclor-1254	11097-69-1	mg/kg	ND	ND	ND	ND
PAH	Acenaphthylene	208-96-8	mg/kg	ND	ND	ND	---
PAH	Anthracene	120-12-7	mg/kg	ND	ND	0.015 F	---
PAH	Benzo (a) anthracene	56-55-3	mg/kg	ND	ND	0.239	---
PAH	Benzo (a) pyrene	50-32-8	mg/kg	ND	ND	0.124	---
PAH	Benzo (b) fluoranthene	205-99-2	mg/kg	ND	ND	0.337	---
PAH	Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	ND	0.06	---
PAH	Benzo (k) fluoranthene	207-08-9	mg/kg	ND	ND	0.101	---
PAH	Chrysene	218-01-9	mg/kg	ND	ND	0.4255 F	---
PAH	Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	0.011 F	---
PAH	Fluoranthene	206-44-0	mg/kg	ND	ND	0.194	---
PAH	Fluorene	86-73-7	mg/kg	ND	ND	0.014 F	---
PAH	Indeno (1,2,3-c,d) pyrene	193-39-5	mg/kg	ND	ND	0.098 J	---
PAH	Phenanthrene	85-01-8	mg/kg	ND	ND	0.105 F	---
PAH	Pyrene	129-00-0	mg/kg	ND	0.002 F	0.219 F	---

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01
 During the EE/CA Investigation
 Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location		LF01-045	LF01-048	LF01-049	LF01-051	LF01-052	LF01-053	LF01-054	
Sample ID		.F01-SL045A	LF01-SL048A	LF01-SL049A	LF01-SL051A	LF01-SL052A	LF01-SL053A	LF01-SL054A	
Sampling Date		11/10/98	11/11/98	11/09/98	11/12/98	11/12/98	11/12/98	11/17/98	
Depth (feet)		0-2	0-0.3	0-2	0-0.3	0-0.3	0-0.3	0-2	
Chemical Group	Analyte	CAS	Units						
METALS	Aluminum	7429-90-5	mg/kg	13500	9930	9760	---	---	28100
METALS	Antimony	7440-36-0	mg/kg	ND	ND	2 F	---	---	18.1
METALS	Arsenic	7440-38-2	mg/kg	12	17.4	22.4	---	---	24.9
METALS	Barium	7440-39-3	mg/kg	32.6	12.2	29	---	---	163
METALS	Beryllium	7440-41-7	mg/kg	0.33 F	0.16 F	0.17 F	---	---	0.59 F
METALS	Cadmium	7440-43-9	mg/kg	0.29 F	0.24 F	0.9	---	---	2.5
METALS	Calcium	7440-70-2	mg/kg	269000	300000	315000	---	---	123000
METALS	Chromium	7440-47-3	mg/kg	60.2	44.5	38.2	---	---	132
METALS	Cobalt	7440-48-4	mg/kg	12	6.3 F	6.5 F	---	---	22.9
METALS	Copper	7440-50-8	mg/kg	11.4	10.1	44.1	---	---	83.3
METALS	Iron	7439-89-6	mg/kg	17900	12400	14700	---	---	70200 J
METALS	Lead	7439-92-1	mg/kg	3 F	2.2 F	341	---	---	314
METALS	Magnesium	7439-95-4	mg/kg	3870	6330	4510	---	---	9260
METALS	Manganese	7439-96-5	mg/kg	237	239	206	---	---	619
METALS	Mercury	7439-97-6	mg/kg	ND	ND	0.19	---	---	0.31
METALS	Nickel	7440-02-0	mg/kg	51.5	36.8	34.4	---	---	112
METALS	Potassium	7440-09-7	mg/kg	287 F	500 F	645 F	---	---	1670
METALS	Silver	7440-22-4	mg/kg	ND	ND	ND	---	---	1.4
METALS	Sodium	7440-23-5	mg/kg	263	523	403	---	---	2890
METALS	Thallium	7440-28-0	mg/kg	ND	ND	ND	---	---	ND
METALS	Vanadium	7440-62-2	mg/kg	43.6	31	30.4	---	---	75.2
METALS	Zinc	7440-66-6	mg/kg	23.5	17.7	162	---	---	925
HERB	2,4-D	94-75-7	mg/kg	ND	0.022 F	ND	---	---	ND
HERB	Dalapon	75-99-0	mg/kg	ND	2.4 J	ND	---	---	ND
HERB	MCPA	94-74-6	mg/kg	ND	ND	4.2 F	---	---	ND
HERB	MCPP	93-65-2	mg/kg	ND	ND	ND	---	---	ND

TABLE 4-4

Chemicals Detected in Surface Soil at Site LF01 During the EE/CA Investigation

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Location	LF01-001	LF01-002	LF01-003	LF01-S025	LF01-039	LF01-040	FL01-054
Sample ID	LF01-SL001D	LF01-SL002D	LF01-SL003D	LF01-SL025D	LF01-SL039D	LF01-SL040D	LF01-SL054D
Sampling Date	12/09/2000	12/09/2000	12/09/2000	12/09/2000		12/09/2000	12/09/2000
Depth (feet)	0-2	0-2	0-2	0-2		0-2	0-2

Chemical Group	Analyte	CAS	Units	LF01-001	LF01-002	LF01-003	LF01-S025	LF01-039	LF01-040	FL01-054
DIOX/FURAN	1,2,3,4,6,7,8,9-OCDD	3268-87-9	ug/kg	0.0675	0.0049 J	0.0272	1.66 M	4.02 J	5.505 J	1.94
DIOX/FURAN	1,2,3,4,6,7,8,9-OCDF	39001-02-0	ug/kg	0.0035 J	ND	ND	0.0376	0.21	0.24 D	0.14
DIOX/FURAN	1,2,3,4,6,7,8-HpCDD	35822-46-9	ug/kg	0.009	ND	0.0032 J	0.346 M	0.489	0.871	0.325
DIOX/FURAN	1,2,3,4,6,7,8-HpCDF	67562-39-4	ug/kg	0.0039 J	0.0018 J	0.0027 J	0.027	0.1	0.2395	0.115
DIOX/FURAN	1,2,3,4,7,8,9-HpCDF	55673-89-7	ug/kg	ND	ND	ND	0.0018 J	0.0041 J	0.024	0.014
DIOX/FURAN	1,2,3,4,7,8-HxCDD	39227-28-6	ug/kg	ND	ND	ND	0.0072	0.0038 J	0.0149	0.0052
DIOX/FURAN	1,2,3,4,7,8-HxCDF	70648-26-9	ug/kg	0.0016 J	0.001 J	0.00096 J	0.0084	0.016	0.151	0.0547
DIOX/FURAN	1,2,3,6,7,8-HxCDD	57653-85-7	ug/kg	0.00085 J	ND	0.00032 J	0.0153	0.0167	0.0384	0.014
DIOX/FURAN	1,2,3,6,7,8-HxCDF	57117-44-9	ug/kg	0.00099 J	ND	0.00047 J	0.0033 J	0.0057	0.0492	0.0197
DIOX/FURAN	1,2,3,7,8,9-HxCDD	19408-74-3	ug/kg	0.0012 J	ND	ND	0.0249	0.015	0.0543	0.0161
DIOX/FURAN	1,2,3,7,8,9-HxCDF	72918-21-9	ug/kg	ND	ND	ND	0.0006 J	0.00068 J	0.0057 D	0.003 J
DIOX/FURAN	1,2,3,7,8-PeCDD	40321-76-4	ug/kg	ND	ND	ND	0.0067	0.003 J	0.0145	0.0054
DIOX/FURAN	1,2,3,7,8-PeCDF	57117-41-6	ug/kg	0.00067 J	0.00033 J	ND	0.0031 J	0.0036 J	0.04515	0.0198
DIOX/FURAN	2,3,4,6,7,8-HxCDF	60851-34-5	ug/kg	ND	ND	0.00026 J	0.0043 J	0.008	0.0668	0.023
DIOX/FURAN	2,3,4,7,8-PeCDF	57117-31-4	ug/kg	0.00062 J	ND	ND	0.0041 J	0.0051	0.06945	0.0228
DIOX/FURAN	2,3,7,8-TCDD	1746-01-6	ug/kg	ND	ND	ND	0.0023	0.00065 J	0.0049	ND
DIOX/FURAN	2,3,7,8-TCDF	51207-31-9	ug/kg	0.00084 J	0.00051 J	0.00054 J	0.008	0.0054	0.03895	0.0181
DIOX/FURAN	Total TCDD TEQs	TOTAL TCDD	ug/kg	0.0011	0.0002	0.0003	0.0205	0.0222	0.1081	0.0371

Notes:

Chemical Groups

TPH = total petroleum hydrocarbons
 SVOC = semivolatile organic compounds
 PEST = pesticides
 PCB = polychlorinated biphenyls
 PAH = polynuclear aromatic hydrocarbons
 HERB = herbicides
 DIOX/FURAN = dioxans and furans

Abbreviations

mg/kg = milligrams per kilogram
 ug/kg = micrograms per kilogram

Data Qualifiers

D = Applied to averaged results when non "U" qualifiers are not identical.
 F = The analyte was positively identified but the associated numerical value is below the sample-specific reporting limit (RL).
 J = The analyte was positively identified; the quantitation is an estimation.
 M = A matrix effect was present.
 DF = Same as "D", and the analyte was positively identified but the associated numerical value is below the sample-specific reporting limit (RL).
 DJ = Same as "D", and the analyte was positively identified; the quantitation is an estimation.
 ND = Not detected.
 --- = Not analyzed.
 R = Rejected.