TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
Event 2								
1	10	12/20/94	VPSV-1	ND	3.6	ND	ND	
1	21	12/20/94	VPSV-2	ND	3.3	ND	ND	
1	33	NS	NS	W	W	W	W	
2	10	12/20/94	VPSV-3	ND	ND	ND	ND	
2	22	12/20/94	VPSV-4	ND	ND	ND	ND	
2	37	12/20/94	VPSV-5	ND	ND	ND	ND	
2	37	12/20/94	VPSV-6(DUP)	ND	ND	ND	ND	
3	16	12/20/94	VPSV-7	ND	33	ND	ND	4.1 Chloroform
3	29	NS	NS	P	P	P	P	
3	40	NS	NS	W	W	W	W	
3	47	NS	NS	W	W	W	W	
4	11	12/20/94	VPSV-8	ND	3.7	52 J	ND	
4	20	12/20/94	VPSV-9	ND	4.9	36	ND	
4	35	12/20/94	VPSV-10	ND	6.1	33	ND	
4	56	NS	NS	W	W	W	W	
5	5	12/20/94	VPSV-11	ND	36	ND	ND	3.7 Chloroform
5	5	12/20/94	VPSV-12(DUP)	ND	31	ND	ND	2.8 Chloroform
5	9	12/20/94	VPSV-13	ND	27	2.6	ND	3.1 Chloroform
6	20	12/20/94	VPSV-22	ND	1.5	ND	1.6	
6	40	12/20/94	VPSV-23	ND	4.7	ND	6.1	
6	40	12/20/94	VPSV-24D	ND	3.2	1.4 J	3.5	
6	60	12/20/94	VPSV-25	ND	12	1.4	8.6	
6	77	12/20/94	VPSV-26	ND	11	ND	14	
6	96	12/20/94	VPSV-27	ND	14	ND	30	
7	20	12/20/94	VPSV-14	ND	ND	3.3	ND	
7	34	12/20/94	VPSV-15	ND	ND	1.6	ND	
8	20	12/20/94	VPSV-16	ND	ND	ND	ND	
8	30	12/20/94	VPSV-17	ND	ND	1.7 J	ND	
8	30	12/20/94	VPSV-18(DUP)	ND	ND	ND	ND	

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
8	50	12/20/94	VPSV-19	1.8	13	ND	7.6	
8	70	12/20/94	VPSV-20	1.9	20	ND	4.7	
8	90	12/20/94	VPSV-21	2.6	23	ND	5.6	
9	20	12/21/94	VPSV-38	ND	ND	ND	5.1	
9	35	12/21/94	VPSV-39	ND	ND	ND	2.5	
9	50	12/21/94	VPSV-40	1.5	ND	ND	2.2	
9	70	12/21/94	VPSV-41	1.5	ND	ND	4.4	
9	70	12/21/94	VPSV-42(DUP)	1.8	ND	ND	3.1	
9	87	12/21/94	VPSV-43	3.4	ND	ND	5.8	
10	20	12/21/94	VPSV-28	ND	ND	1.3	1.5	
10	35	12/21/94	VPSV-29	ND	ND	ND	2.1	
10	35	12/21/94	VPSV-30(DUP)	ND	ND	ND	3.5	
10	50	12/21/94	VPSV-31	ND	ND	ND	3.9	
10	69	12/21/94	VPSV-32	ND	ND	ND	4.3	
11	20	12/21/94	VPSV-51	ND	ND	ND	2	
11	40	12/21/94	VPSV-52	ND	ND	ND	6	
11	60	12/21/94	VPSV-53	ND	ND	ND	5.9	
11	60	12/21/94	VPSV-54(DUP)	ND	ND	ND	7.4	
11	80	NS	NS	P	P	P	P	
11	96	12/21/94	VPSV-55	2.7	8.5	ND	29	
12	20	12/22/94	VPSV-65	ND	ND	ND	ND	
12	20	12/22/94	VPSV-66(DUP)	ND	ND	ND	ND	
12	40	12/22/94	VPSV-67	ND	ND	ND	ND	
12	60	12/22/94	VPSV-68	ND	ND	ND	ND	
12	76	12/22/94	VPSV-69	ND	ND	ND	ND	
13	10	12/21/94	VPSV-33	ND	ND	ND	4.7	
13	20	12/21/94	VPSV-34	ND	ND	ND	2.9	
13	30	12/21/94	VPSV-35	ND	ND	ND	ND	
13	30	12/21/94	VPSV-36(DUP)	ND	ND	ND	ND	
13	40	12/21/94	VPSV-37	ND	ND	ND	ND	

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
14	5	12/21/94	VPSV-44	ND	ND	ND	ND	
14	10	12/21/94	VPSV-45	ND	ND	ND	ND	
14	13	12/21/94	VPSV-46	ND	ND	ND	ND	
15	20	12/22/94	VPSV-75	ND	ND	ND	ND	
15	40	12/22/94	VPSV-76	ND	ND	ND	1.3	
15	60	12/22/94	VPSV-77	ND	11	1.7	32	
15	60	12/22/94	VPSV-78(DUP)	ND	8.8	1.2	29	
15	75	12/22/94	VPSV-79	1.5	18	3	34	
15	90	12/22/94	VPSV-80	ND	8	1.8	16	
16	20	12/21/94	VPSV-56	ND	ND	ND	ND	
16	40	12/21/94	VPSV-57	ND	ND	ND	2.8	
16	60	12/21/94	VPSV-58	2.6	8.9	ND	23	
16	80	12/21/94	VPSV-59	2.7	176	1.2	14	
16	80	12/21/94	VPSV-60(DUP)	2.7	117	1.2	18	
16	95	12/21/94	VPSV-61	1.9	219	1.4	21	
17	12	12/21/94	VPSV-47	ND	ND	ND	ND	
17	12	12/21/94	VPSV-48(DUP)	ND	ND	ND	ND	
17	24	12/21/94	VPSV-49	ND	ND	ND	ND	
17	36	12/21/94	VPSV-50	ND	ND	ND	ND	1.4 Chloroform, 1.9 1,1-Dichloroethane, 4.2 1,2-Dichloroethane, 94 cis-1,2-Dichloroethene, 2.7 Tetrachloroethene, 3.8 1,1,1-Trichloroethane, 39 Benzene, 1.6 Ethylbenzene, 2.2 Toluene, 5.7 Total Xylenes
18	20	12/29/94	VPSV-106	ND	ND	ND	ND	
18	40	12/29/94	VPSV-107	ND	ND	1.2	ND	
18	40	12/29/94	VPSV-108(DUP)	ND	ND	1	ND	

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
18	55	12/29/94	VPSV-109	ND	ND	2.2	1.7	
18	70	12/29/94	VPSV-110	ND	ND	2.1	2.3	1.0 1,1,1-Trichloroethane
18	85	12/29/94	VPSV-111	ND	ND	1.8	1	
19A	20	12/22/94	VPSV-70	ND	3.1	ND	2.5	
19A	40	12/22/94	VPSV-71	ND	10	1.3 J	4.8	
19A	40	12/22/94	VPSV-72(DUP)	ND	6.8	ND	3.5	
19A	60	12/22/94	VPSV-73	1.2	23	1.6	5	
19A	80	NS	NS	P	P	P	P	
19A	96	12/22/94	VPSV-74	ND	2.6	1.2	1.3	
20	10	12/29/94	VPSV-93	ND	ND	ND	ND	
20	20	NS	NS	P	P	P	P	
20	30	12/29/94	VPSV-94	ND	1.5	ND	1.3	
20	37	12/29/94	VPSV-95	ND	2	ND	ND	
20A	20	12/29/94	VPSV-96	ND	ND	ND	ND	
20A	20	12/29/94	VPSV-97(DUP)	ND	ND	ND	ND	
20A	30	12/29/94	VPSV-98	ND	ND	ND	ND	
20A	47	12/29/94	VPSV-99	ND	1	ND	ND	
20A	60	NS	NS	W	W	W	W	
21	20	12/22/94	VPSV-87	ND	ND	ND	ND	
21	40	12/22/94	VPSV-88	ND	ND	ND	1.4	
21	55	12/22/94	VPSV-89	ND	4.3	2.9	4.4	
21	55	12/22/94	VPSV-90(DUP)	ND	2.6	2.3	3.5	
21	70	12/22/94	VPSV-91	ND	4.1	4	2.8	
21	85	12/22/94	VPSV-92	ND	4.7	4.1	3.7	
22	20	12/22/94	VPSV-81	ND	8.9	2.8	9.1	
22	40	12/22/94	VPSV-82	ND	8.2	2.9	12	
22	60	12/22/94	VPSV-83	ND	19	4.8	20	1.4 J Chloroform
22	60	12/22/94	VPSV-84(DUP)	ND	11	4	13	
22	80	12/22/94	VPSV-85	ND	15	4.5	15	1.3 Chloroform
22	95	12/22/94	VPSV-86	ND	14	6.4	11	1.1 Chloroform

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
23B	5	12/22/94	VPSV-62	ND	ND	ND	ND	
23B	11	12/22/94	VPSV-63	ND	ND	ND	ND	
23B	17	12/22/94	VPSV-64	ND	ND	ND	ND	
24	20	12/29/94	VPSV-100	ND	ND	ND	ND	
24	40	12/29/94	VPSV-101	ND	ND	ND	3.8	
24	60	12/29/94	VPSV-102	ND	7.8	1.7	17	
24	60	12/29/94	VPSV-103(DUP)	ND	7.5	1.6	16	
24	80	12/29/94	VPSV-104	ND	9.7	1.8	23	
24	95	12/29/94	VPSV-105	ND	3.8	ND	9.9	
Event 3								
1	10	3/7/95	VPSV-112	ND	1.9	ND	ND	
1	21	3/7/95	VPSV-113	ND	2.1	ND	ND	
1	33	NS	NS	W	W	W	W	
2	10	3/7/95	VPSV-114	ND	ND	ND	ND	
2	22	3/7/95	VPSV-115	ND	ND	ND	ND	
2	37	NS	NS	W	W	W	W	
3	16	3/7/95	VPSV-116	ND	40	ND	ND	7.3 Chloroform, 1.1 Tetrachloroethene
3	16	3/7/95	VPSV-117(DUP)	ND	26	ND	ND	3.7 Chloroform, 1.1 Tetrachloroethene
3	29	NS	NS	P	P	P	P	
3	40	NS	NS	W	W	W	W	
3	47	NS	NS	W	W	W	W	
4	11	3/7/95	VPSV-118	ND	7.5	46	1.5	
4	20	3/7/95	VPSV-119	ND	24	47	4.6	
4	35	3/7/95	VPSV-120	ND	41	40	3.1	
4	56	NS	NS	W	W	W	W	
5	5	3/7/95	VPSV-121	ND	29	ND	ND	2.7 Chloroform
5	9	3/7/95	VPSV-122	ND	29	ND	ND	4.3 Chloroform
5	9	3/7/95	VPSV-123(DUP)	ND	28	ND	ND	2.9 Chloroform

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
6	20	3/7/95	VPSV-124	ND	7.4	ND	20	
6	40	3/7/95	VPSV-125	ND	44	ND	50	
6	60	3/7/95	VPSV-126	ND	29	2.4	19	
6	77	3/7/95	VPSV-127	ND	29	1.4	25	
6	96	3/7/95	VPSV-128	ND	6.1	ND	33	
6	96	3/7/95	VPSV-129(DUP)	ND	4.3	ND	29	
7	20	3/7/95	VPSV-130	ND	4.3	ND	ND	
7	34	NS	NS	W	W	W	W	
8	20	NS	NS	P	P	P	P	
8	30	3/9/95	VPSV-163	ND	ND	ND	2.1	
8	50	3/9/95	VPSV-164	ND	14	ND	6.6	
8	70	3/9/95	VPSV-165	ND	27	ND	9.7	1.1 J Chloroform
8	70	3/9/95	VPSV-166(DUP)	ND	27	ND	8.1	
8	90	3/9/95	VPSV-167	ND	28	ND	11	
9	20	3/9/95	VPSV-173	ND	ND	ND	3	
9	35	3/9/95	VPSV-174	ND	ND	ND	3.2	
9	50	3/9/95	VPSV-175	ND	ND	ND	8	
9	70	3/9/95	VPSV-176	ND	ND	ND	9.3	
9	87	3/9/95	VPSV-177	5.8	ND	ND	10	
9	87	3/9/95	VPSV-178(DUP)	6.5	ND	ND	9.3	
10	20	3/9/95	VPSV-168	ND	ND	ND	1.3	
10	35	NS	NS	W	W	W	W	
10	50	NS	NS	W	W	W	W	
10	69	NS	NS	P	P	P	P	
11	20	3/9/95	VPSV-179	ND	ND	ND	2.5	
11	40	3/9/95	VPSV-180	ND	ND	ND	6.5	
11	60	3/9/95	VPSV-181	ND	1.6	ND	15	
11	80	NS	NS	P	P	P	P	
11	96	3/9/95	VPSV-182	ND	7.1	ND	22	
12	20	3/9/95	VPSV-191	ND	ND	ND	ND	
12	40	3/9/95	VPSV-192	ND	ND	ND	ND	

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
12	60	NS	NS	W	W	W	W	
12	76	NS	NS	W	W	W	W	
13	10	3/9/95	VPSV-169	ND	ND	ND	6.6	
13	20	NS	NS	W	W	W	W	
13	30	3/9/95	VPSV-170	ND	ND	ND	ND	
13	40	3/9/95	VPSV-171	ND	ND	ND	ND	
13	40	3/9/95	VPSV-172(DUP)	ND	ND	ND	ND	
14	5	3/9/95	VPSV-187	ND	ND	ND	ND	
14	10	3/9/95	VPSV-188	ND	ND	ND	ND	
14	13	3/9/95	VPSV-189	ND	ND	ND	ND	
14	13	3/9/95	VPSV-190(DUP)	ND	ND	ND	ND	
15	20	3/8/95	VPSV-146	ND	ND	ND	4.7	
15	40	3/8/95	VPSV-147	ND	3.6	ND	17	
15	40	3/8/95	VPSV-148(DUP)	ND	6.3	ND	22	
15	60	3/8/95	VPSV-149	ND	20	3	23	
15	75	NS	NS	P	P	P	P	
15	90	3/8/95	VPSV-150	ND	4.6	1.9	6.8	
16	20	3/10/95	VPSV-193	ND	ND	ND	ND	
16	40	3/10/95	VPSV-194	ND	ND	ND	ND	
16	60	3/10/95	VPSV-195	ND	6.8	ND	33	
16	60	3/10/95	VPSV-196(DUP)	ND	8	ND	25	1.0 J Chloroform
16	80	3/10/95	VPSV-197	ND	109	2.2	24	
16	95	3/10/95	VPSV-198	ND	240	ND	20	
17	12	3/9/95	VPSV-183	ND	ND	ND	ND	
17	12	3/9/95	VPSV-184(DUP)	ND	ND	ND	ND	
17	24	3/9/95	VPSV-185	ND	ND	ND	ND	1.9 1,1,1-Trichloroethane
17	36	3/9/95	VPSV-186	ND	ND	ND	1.8	1.9 Chloroform, 3.3 1,1-Dichloroethane, 6.1 1,2-Dichloroethane, 2.2 cis-1,2-Dichloroethene, 4.0 Tetrachloroethene, 4.4 1,1,1-Trichloroethane,

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
								54 Benzene, 1.9 Ethylbenzene, 3.6 Toluene, 12 Total Xylenes
18	20	NS	NS	P	P	P	P	
18	40	3/10/95	VPSV-199	ND	ND	2.9	1.7	
18	55	3/10/95	VPSV-200	ND	ND	2.9	ND	
18	70	3/10/95	VPSV-201	ND	2.2	3.7	2	1.6 J 1,1,1-Trichloroethane
18	70	3/10/95	VPSV-202(DUP)	ND	1.3	3.3	2.6	
18	85	3/10/95	VPSV-203	ND	ND	3.5	4.2	
19A	20	3/8/95	VPSV-138	ND	ND	ND	1.8	
19A	40	3/8/95	VPSV-139	ND	13	1.6	7.3	
19A	60	3/8/95	VPSV-140	ND	23	1.7	5.3	
19A	60	3/8/95	VPSV-141(DUP)	ND	25	1.8	5.6	
19A	80	NS	NS	P	P	P	P	
19A	96	3/8/95	VPSV-142	ND	9.2	2.8	8	
20	10	3/7/95	VPSV-134	ND	ND	ND	ND	
20	20	NS	NS	P	P	P	P	
20	30	3/7/95	VPSV-135	ND	17	ND	20	
20	30	3/7/95	VPSV-136(DUP)	ND	9.4	ND	16	
20	37	3/7/95	VPSV-137	ND	49	1.5	24	
20A	20	3/7/95	VPSV-131	ND	1.7	ND	6.3	
20A	30	3/7/95	VPSV-132	ND	ND	ND	ND	
20A	47	3/7/95	VPSV-133	ND	26	ND	20	
20A	60	NS	NS	W	W	W	W	
21	20	3/8/95	VPSV-151	ND	ND	ND	ND	
21	40	3/8/95	VPSV-152	ND	9.2	1.7	13	
21	55	3/8/95	VPSV-153	ND	19	10	15	1.4 Chloroform
21	55	3/8/95	VPSV-154(DUP)	ND	22	6.2	19	1.6 Chloroform
21	70	3/8/95	VPSV-155	ND	ND	5.7	ND	
21	85	3/8/95	VPSV-156	ND	14	4.7	15	

TABLE 4-6

SOIL-VAPOR RESULTS– EVENTS 2 AND 3

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
22	20	3/8/95	VPSV-157	ND	28	9.6	27	
22	40	3/8/95	VPSV-158	ND	38	6.4	34	2.0 Chloroform
22	60	3/8/95	VPSV-159	ND	40	16	25	2.8 Chloroform
22	60	3/8/95	VPSV-160(DUP)	ND	35	7	29	2.5 Chloroform
22	80	3/8/95	VPSV-161	ND	29	16	23	2.3 Chloroform
22	95	3/8/95	VPSV-162	ND	28	6.2	28	2.0 Chloroform
23B	5	3/8/95	VPSV-143	ND	ND	ND	ND	
23B	11	NS	NS	W	W	W	W	
23B	17	NS	NS	W	W	W	W	
24	20	3/8/95	VPSV-144	ND	1.3	ND	8.4	
24	40	NS	NS	T	T	T	T	
24	60	3/8/95	VPSV-145	ND	17	5.3	16	
24	80	NS	NS	T	T	T	T	
24	95	NS	NS	T	T	T	T	

Notes:

bgs - Below ground surface.
DUP - Duplicate samples.
J - Estimated concentration.
ND - Not detected.
NS - Not sampled.
P - Sampling port plugged.
T - Sample tubing destroyed.
W - Sampling port inundated with water.

TABLE 4-7

SOIL-VAPOR RESULTS – EVENTS 4 AND 5

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
Event 4								
25	20	6/23/97	VPSV-216	ND	7.9	ND	ND	
25	40	6/23/97	VPSV-217	ND	8.3	ND	5.7	
25	60	6/23/97	VPSV-218	ND	8.3	ND	59	2.7 Fluorotrichloromethane
25	85	6/24/97	VPSV-219	5.5	433	1.6	28	
25	100	6/24/97	VPSV-220	4.2	606	2	54	
25	100	6/24/97	VPSV-221(DUP)	4.4	378 J	2	53	
25	120	6/24/97	VPSV-222	3.2	424	2.5	49	
25	145	6/24/97	VPSV-223	2.8	295	2	36	
25	165	6/24/97	VPSV-224	2.4	267	2.1	38	
25	180	6/24/97	VPSV-225	3.1	255	2.6	43	
25	190	6/24/97	VPSV-226	4	181	2.7	38	
25	190	6/24/97	VPSV-227(DUP)	3.9	214	2.8	45	
26	20	6/24/97	VPSV-228	ND	ND	ND	ND	
26	35	6/24/97	VPSV-229	ND	3.7	ND	ND	
26	55	6/24/97	VPSV-230	10	2.5	ND	6.3	
26	80	6/24/97	VPSV-231	24	146	8.4	19	
26	100	6/24/97	VPSV-232	7.2	293	4.6	19	
26	100	6/24/97	VPSV-233(DUP)	8.2	276	3.4	15	
26	115	6/25/97	VPSV-234	5	261	2.2	11	
26	140	6/25/97	VPSV-235	3.3	244	1.3	20	
26	160	6/25/97	VPSV-236	3.5	297	1.6	29	
26	180	6/25/97	VPSV-237	3.2	225	1.4	22	
26	195	6/25/97	VPSV-238	3.5	136	2.1	23	
26	195	6/25/97	VPSV-239(DUP)	2.4	122	1.8	25	
27	20	6/23/97	VPSV-204	ND	ND	ND	ND	
27	35	6/23/97	VPSV-205	ND	ND	ND	1.6	
27	60	6/23/97	VPSV-206	ND	1.9	ND	33	
27	85	6/23/97	VPSV-207	9.8	57	ND	49	1.5 Fluorotrichloromethane
27	100	6/23/97	VPSV-208	6.3	288	1.1	61	
27	100	6/23/97	VPSV-209(DUP)	8.7	230 J	1	65	

TABLE 4-7

SOIL-VAPOR RESULTS – EVENTS 4 AND 5

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
27	120	6/23/97	VPSV-210	6.6	409	ND	73	
27	140	6/23/97	VPSV-211	6.2	292	ND	67	
27	160	6/23/97	VPSV-212	6.3	299	ND	70	
27	180	6/23/97	VPSV-213	4.4	295	ND	71	
27	205	6/23/97	VPSV-214	5.5	577	ND	72	
27	205	6/23/97	VPSV-215(DUP)	3.3	436 J	ND	74	
28	20	6/25/97	VPSV-240	ND	ND	ND	2.5	1.4 1,1,1-Trichloroethane
28	45	6/25/97	VPSV-241	1.7	82	ND	30	
28	65	6/25/97	VPSV-242	3.7	160	1.7	33	
28	80	6/25/97	VPSV-243	3.7	257	2.3	42	
28	105	6/25/97	VPSV-244	3	296	2.4	56	
28	105	6/25/97	VPSV-245(DUP)	2.6	244	2.2	54	
28	120	6/25/97	VPSV-246	2.4	288	2.8	52	
28	140	NS	NS	P	P	P	P	
28	160	6/25/97	VPSV-247	3.6	121	2.9	26	
29	20	6/25/97	VPSV-248	ND	ND	ND	ND	
29	35	6/25/97	VPSV-249	ND	ND	ND	ND	
29	50	6/26/97	VPSV-250	ND	ND	ND	ND	
29	50	6/26/97	VPSV-251(DUP)	ND	ND	ND	ND	
29	60	6/26/97	VPSV-252	ND	ND	ND	ND	
29	78	6/26/97	VPSV-253	ND	ND	ND	ND	
30	17	6/26/97	VPSV-260	ND	ND	ND	ND	
30	30	6/26/97	VPSV-261	ND	ND	ND	ND	
30	40	6/26/97	VPSV-262	ND	ND	ND	ND	
30	40	6/26/97	VPSV-263(DUP)	ND	ND	ND	ND	
30	50	6/26/97	VPSV-264	ND	ND	ND	ND	
30	65	6/26/97	VPSV-265	ND	ND	ND	ND	
30	65	6/26/97	VPSV-266(DUP)	ND	ND	ND	ND	
31	20	6/26/97	VPSV-254	ND	ND	ND	ND	
31	35	6/26/97	VPSV-255	ND	ND	ND	ND	
31	45	6/26/97	VPSV-256	ND	ND	ND	ND	

TABLE 4-7

SOIL-VAPOR RESULTS – EVENTS 4 AND 5

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
31	45	6/26/97	VPSV-257(DUP)	ND	ND	ND	ND	
31	55	6/26/97	VPSV-258	ND	ND	ND	ND	
31	65	6/26/97	VPSV-259	ND	ND	ND	ND	
Event 5								
25	20	7/21/97	VPSV-279	ND	2.2	ND	ND	
25	40	7/21/97	VPSV-280	ND	6.1	ND	3	
25	60	7/21/97	VPSV-281	3.1	7.7	ND	36	2.5 Fluorotrichloromethane
25	85	7/21/97	VPSV-282	8.2	368	5.2	75	
25	100	7/22/97	VPSV-283	6.2	582	3.9	61	
25	100	7/22/97	VPSV-284(DUP)	7.1	585	3.9	58	
25	120	7/22/97	VPSV-285	6.2	590	3.5	57	
25	145	7/22/97	VPSV-286	5.7	609	3	56	
25	165	7/22/97	VPSV-287	7	538	3.5	61	
25	180	7/22/97	VPSV-288	6.2	441	3.4	54	
25	190	7/22/97	VPSV-289	5.6	255	4.3	38	
25	190	7/22/97	VPSV-290(DUP)	6.6	308	5.3	49	
26	20	7/22/97	VPSV-291	ND	ND	ND	ND	
26	35	7/22/97	VPSV-292	1.5	6.1	ND	ND	
26	55	7/22/97	VPSV-293	7.7	3.5	ND	7	
26	80	7/22/97	VPSV-294	24	182	10	11	
26	100	7/22/97	VPSV-295	12	519	8.1	24	
26	100	7/22/97	VPSV-296(DUP)	11	447	6.8	22	
26	115	7/22/97	VPSV-297	9	448	5.6	27	
26	140	7/22/97	VPSV-298	6.3	527	3.6	49	
26	160	7/22/97	VPSV-299	6.1	330	3.8	24	
26	180	7/23/97	VPSV-300	2.8	164	1.3	26	
26	195	7/23/97	VPSV-301	3.1	111	1.9	23	
26	195	7/23/97	VPSV-302(DUP)	3	117	2.1	25	
27	20	7/21/97	VPSV-267	ND	ND	ND	ND	
27	35	7/21/97	VPSV-268	ND	ND	ND	1.5	
27	60	7/21/97	VPSV-269	ND	2.5	ND	31	

TABLE 4-7

SOIL-VAPOR RESULTS – EVENTS 4 AND 5

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
27	85	7/21/97	VPSV-270	2.7	30	ND	27	1.2 Fluorotrichloromethane
27	100	7/21/97	VPSV-271	2.5	111	1.2	27	
27	100	7/21/97	VPSV-272(DUP)	3	117	1.5	29	
27	120	7/21/97	VPSV-273	2.5	82	ND	21	
27	140	7/21/97	VPSV-274	5.5	147	ND	67	
27	160	7/21/97	VPSV-275	3.7	228	ND	69	
27	180	7/21/97	VPSV-276	3.1	293	ND	68	
27	205	7/21/97	VPSV-277	6	472	ND	77	
27	205	7/21/97	VPSV-278(DUP)	7.5	435	ND	84	
28	20	7/23/97	VPSV-303	ND	1.9	ND	3.8	1.6 1,1,1-Trichloroethane
28	45	7/23/97	VPSV-304	1.7	66	ND	29	
28	65	7/23/97	VPSV-305	3	147	1.2	34	
28	80	7/23/97	VPSV-306	2.6	206	1.2	47	
28	105	7/23/97	VPSV-307	2.7	254	1.3	65	
28	105	7/23/97	VPSV-308(DUP)	3.1	289	1.6	72	
28	120	7/23/97	VPSV-309	2.7	297	1.4	71	
28	140	NS	NS	P	P	P	P	
28	160	7/23/97	VPSV-310	2.7	140	1.4	33	
29	20	7/23/97	VPSV-311	ND	ND	ND	ND	
29	35	7/23/97	VPSV-312	ND	ND	ND	ND	
29	50	7/23/97	VPSV-313	ND	ND	ND	ND	
29	50	7/23/97	VPSV-314(DUP)	ND	ND	ND	ND	
29	60	7/23/97	VPSV-315	ND	ND	ND	ND	
29	78	7/23/97	VPSV-316	ND	ND	ND	ND	
30	17	7/24/97	VPSV-317	ND	ND	ND	ND	
30	30	7/24/97	VPSV-318	ND	ND	ND	ND	
30	40	7/24/97	VPSV-319	ND	ND	ND	ND	
30	40	7/24/97	VPSV-320(DUP)	ND	ND	ND	ND	
30	50	7/24/97	VPSV-321	ND	ND	ND	ND	
30	65	7/24/97	VPSV-322	ND	ND	ND	ND	

TABLE 4-7

SOIL-VAPOR RESULTS – EVENTS 4 AND 5

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
31	20	7/24/97	VPSV-323	ND	ND	ND	ND	
31	35	7/24/97	VPSV-324	ND	ND	ND	ND	
31	45	7/24/97	VPSV-325	ND	ND	ND	ND	
31	45	7/24/97	VPSV-326(DUP)	ND	ND	ND	ND	
31	55	7/24/97	VPSV-327	ND	ND	ND	ND	
31	65	7/24/97	VPSV-328	ND	ND	ND	ND	
31	65	7/24/97	VPSV-329D	ND	ND	ND	ND	

Notes:

bgs - Below ground surface.
DUP - Duplicate samples.
J - Estimated concentration.
ND - Not detected.
NS - Not sampled.
P - Sampling port plugged.

TABLE 4-8

SOIL-VAPOR RESULTS – EVENT 6

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
Event 6								
25	20	5/26/98	VPSV-418	ND	ND	ND	ND	
25	40	5/26/98	VPSV-419	ND	ND	ND	ND	
25	40	5/26/98	VPSV-420(DUP)	ND	ND	ND	ND	
25	60	NS	NS	P	P	P	P	
25	85	5/26/98	VPSV-421	1.7	162 J	ND	31	
25	100	5/26/98	VPSV-422	ND	206	ND	41	
25	120	5/27/98	VPSV-423	ND	239	ND	36	
25	145	5/27/98	VPSV-424	ND	284	ND	48	
25	165	5/27/98	VPSV-425	ND	122	ND	29	
25	165	5/27/98	VPSV-426(DUP)	ND	109	ND	27	
25	180	NS	NS	W	W	W	W	
25	190	NS	NS	W	W	W	W	
26	20	5/27/98	VPSV-427	ND	ND	ND	ND	
26	35	5/27/98	VPSV-428	ND	ND	ND	ND	
26	55	5/27/98	VPSV-429	2.3	ND	ND	ND	
26	80	5/27/98	VPSV-430	7.6	48	5.1	4.7	
26	100	5/27/98	VPSV-431	1.4	49	ND	ND	
26	100	5/27/98	VPSV-432(DUP)	1.5	60	ND	ND	
26	115	5/27/98	VPSV-433	3.2	235 J	1.4	6.8	
26	140	5/27/98	VPSV-434	2.1	119	ND	3	
26	160	5/28/98	VPSV-435	1.9	107	ND	3.7	
26	180	5/28/98	VPSV-436	2.1	112	1.5	2.6	
26	195	NS	NS	W	W	W	W	
27	20	5/26/98	VPSV-409	ND	ND	ND	ND	
27	35	NS	NS	W	W	W	W	
27	60	5/26/98	VPSV-410	ND	ND	ND	ND	
27	85	5/26/98	VPSV-411	ND	13	ND	18	
27	100	5/26/98	VPSV-412	ND	147	ND	31	
27	120	5/26/98	VPSV-413	ND	182	ND	49	
27	120	5/26/98	VPSV-414(DUP)	ND	187	ND	51	

TABLE 4-8

SOIL-VAPOR RESULTS – EVENT 6

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
27	140	5/26/98	VPSV-415	ND	96	ND	43	
27	160	5/26/98	VPSV-416	ND	105	ND	51	
27	180	5/26/98	VPSV-417	ND	80	ND	48	
27	205	NS	NS	W	W	W	W	
28	20	5/28/98	VPSV-437	ND	ND	ND	ND	
28	20	5/28/98	VPSV-438(DUP)	ND	ND	ND	ND	
28	45	5/28/98	VPSV-439	ND	ND	ND	ND	
28	65	NS	NS	P	P	P	P	
28	80	5/28/98	VPSV-440	ND	132	ND	38	
28	105	5/28/98	VPSV-441	ND	245 J	ND	93	
28	120	5/28/98	VPSV-442	ND	367 J	ND	81	
28	120	5/28/98	VPSV-443(DUP)	ND	404 J	ND	79	
28	140	NS	NS	P	P	P	P	
28	160	NS	NS	P	P	P	P	
32	25	5/18/98	VPSV-330	ND	ND	ND	ND	
32	40	5/18/98	VPSV-331	ND	ND	ND	ND	
32	55	5/18/98	VPSV-332	ND	ND	ND	ND	
32	70	5/18/98	VPSV-333	ND	ND	ND	14	
32	90	5/18/98	VPSV-334	ND	7.5	ND	42	
32	90	5/18/98	VPSV-335(DUP)	ND	9.9	ND	50	
32	115	5/18/98	VPSV-336	ND	ND	ND	ND	
32	135	5/18/98	VPSV-337	ND	16	ND	90	
32	155	5/18/98	VPSV-338	ND	96	ND	115	
32	180	5/18/98	VPSV-339	ND	72	ND	67	46 1,2-Dichloroethane, 25 Dichloromethane
32	195	NS	NS	W	W	W	W	
33	20	5/19/98	VPSV-346	ND	ND	ND	ND	
33	20	5/19/98	VPSV-347(DUP)	ND	ND	ND	ND	
33	40	5/19/98	VPSV-348	9.6	39	1.7	6.7	
33	60	5/19/98	VPSV-349	9.8	120	3.7	2.5	
33	85	5/19/98	VPSV-350	3	80	1.1	1.5	

TABLE 4-8

SOIL-VAPOR RESULTS – EVENT 6

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
33	105	5/19/98	VPSV-351	4	88	1.4	2.1	
33	120	5/19/98	VPSV-352	3.9	115	ND	6.1	
33	120	5/19/98	VPSV-353(DUP)	3.6	105	ND	6.2	
33	140	5/19/98	VPSV-354	3.2	85	ND	ND	
33	160	5/19/98	VPSV-355	3.5	76	ND	ND	
33	180	5/19/98	VPSV-356	1.8	28	ND	ND	
33	200	NS	NS	W	W	W	W	
34	20	5/20/98	VPSV-368	ND	ND	ND	ND	
34	35	5/20/98	VPSV-369	ND	1.7	ND	ND	
34	50	5/20/98	VPSV-370	ND	30	ND	5.5	
34	50	5/20/98	VPSV-371(DUP)	ND	30	ND	6.9	
34	65	5/20/98	VPSV-372	ND	87	ND	11	
34	80	5/20/98	VPSV-373	ND	26	ND	9.1	
34	95	5/20/98	VPSV-374	ND	74	ND	10	1.7 Chloroform
34	108	5/20/98	VPSV-375	ND	246 J	ND	57	1.6 Chloroform
34	118	5/20/98	VPSV-376	ND	227	ND	49	
34	118	5/20/98	VPSV-377(DUP)	ND	234	ND	45	
35	20	5/22/98	VPSV-397	ND	ND	ND	ND	
35	35	5/22/98	VPSV-398	ND	ND	ND	ND	
35	50	5/22/98	VPSV-399	ND	1.5	ND	ND	
35	60	5/22/98	VPSV-400	ND	12	ND	9.9	
35	60	5/22/98	VPSV-401(DUP)	ND	12	ND	11	
35	80	5/22/98	VPSV-402	ND	29	ND	16	
35	95	5/22/98	VPSV-403	ND	43	ND	17	
35	110	5/22/98	VPSV-404	ND	97	ND	20	
35	125	5/22/98	VPSV-405	ND	91	ND	20	
35	140	5/22/98	VPSV-406	ND	114	1.1	20	
35	140	5/22/98	VPSV-407(DUP)	ND	112	1.1	19	
35	155	5/22/98	VPSV-408	ND	48	1.3	19	
36	20	5/18/98	VPSV-340	ND	ND	ND	ND	
36	20	5/18/98	VPSV-341(DUP)	ND	ND	ND	ND	

TABLE 4-8

SOIL-VAPOR RESULTS – EVENT 6

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
36	35	5/18/98	VPSV-342	ND	15	ND	6.5	
36	55	5/18/98	VPSV-343	ND	11	ND	2	
36	75	5/18/98	VPSV-344	ND	12	ND	3.2	1.8 Chloroform
36	92	5/18/98	VPSV-345	ND	19	ND	6	4.4 Chloroform
37	25	5/19/98	VPSV-357	ND	3.1	ND	ND	
37	40	5/19/98	VPSV-358	ND	8.7	ND	1.8	
37	40	5/19/98	VPSV-359(DUP)	ND	7.4	ND	1.6	
37	60	5/19/98	VPSV-360	ND	2.8	ND	4	
37	80	5/19/98	VPSV-361	ND	24	1.2	6	
37	100	5/20/98	VPSV-362	ND	49	3	18	
37	120	5/20/98	VPSV-363	ND	32	3.6	17	1.1 Chloroform, 1.6 Fluorotrichloromethane
37	140	5/20/98	VPSV-364	ND	45	3.4	24	1.2 Chloroform, 1.3 Fluorotrichloromethane
37	140	5/20/98	VPSV-365(DUP)	ND	43	2.8	24	1.1 Chloroform, 1.2 Fluorotrichloromethane
37	155	5/20/98	VPSV-366	ND	42	2.6	9.4	
37	170	5/20/98	VPSV-367	ND	21	1.8	ND	
37	185	NS	NS	W	W	W	W	
38	25	5/21/98	VPSV-387	ND	7.1	ND	7.9	
38	45	5/21/98	VPSV-388	ND	19	1.9	23	
38	45	5/21/98	VPSV-389(DUP)	ND	19	1.8	23	
38	65	5/21/98	VPSV-390	ND	16	2.5	30	
38	80	5/21/98	VPSV-391	ND	15	1.9	33	1.3 Fluorotrichloromethane
38	95	NS	NS	W	W	W	W	
38	110	5/21/98	VPSV-392	ND	3.5	1.1	3	
38	125	5/21/98	VPSV-393	ND	22	2.1	38	
38	140	5/22/98	VPSV-394	ND	22	2.4	36	
38	140	5/22/98	VPSV-395(DUP)	ND	17	2	30	
38	155	5/22/98	VPSV-396	ND	17	2.1	32	
38	170	NS	NS	W	W	W	W	

TABLE 4-8

SOIL-VAPOR RESULTS – EVENT 6

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
39	20	5/21/98	VPSV-378	ND	ND	ND	ND	
39	35	5/21/98	VPSV-379	ND	ND	ND	ND	
39	50	5/21/98	VPSV-380	ND	ND	ND	ND	
39	70	5/21/98	VPSV-381	ND	ND	ND	ND	
39	85	5/21/98	VPSV-382	ND	7.6	2.2	35	
39	85	5/21/98	VPSV-383(DUP)	ND	7.9	2.1	36	
39	100	5/21/98	VPSV-384	ND	9.1	3.8	18	
39	110	5/21/98	VPSV-385	ND	8.1	5.4	11	
39	120	5/21/98	VPSV-386	ND	2.7	19	7.5	
39	130	5/21/98	NS	W	W	W	W	

Notes:

bgs - Below ground surface.
DUP - Duplicate samples.
J - Estimated concentration.
ND - Not detected.
NS - Not sampled.
P - Sampling port plugged.
W - Sampling port inundated with water.

TABLE 4-9

SOIL-VAPOR RESULTS – EVENT 7

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
Event 7								
32	25	6/15/98	VPSV-444	ND	ND	ND	ND	
32	40	6/15/98	VPSV-445	ND	ND	ND	ND	
32	55	6/15/98	VPSV-446	ND	ND	ND	14	
32	70	6/15/98	VPSV-447	ND	ND	ND	13	
32	90	6/15/98	VPSV-448	ND	4.6	ND	35	
32	90	6/15/98	VPSV-449(DUP)	ND	5	ND	35	
32	115	6/15/98	VPSV-450	ND	ND	ND	6.8	
32	135	6/15/98	VPSV-451	ND	18	ND	112	
32	155	6/15/98	VPSV-452	ND	66	1.9	101	
32	180	6/15/98	VPSV-453	ND	136	3.4	109	
32	195	NS	NS	W	W	W	W	
33	20	6/16/98	VPSV-460	ND	ND	ND	ND	
33	20	6/16/98	VPSV-461(DUP)	ND	ND	ND	ND	
33	40	6/16/98	VPSV-462	20	43	5.2	24	
33	60	6/16/98	VPSV-463	14	111	4.3	3	
33	85	6/16/98	VPSV-464	8.6	181 J	2.6	3.4	
33	105	6/16/98	VPSV-465	7.7	195 J	2.5	3.3	
33	120	6/16/98	VPSV-466	6.1	165 J	1	4.6	
33	120	6/16/98	VPSV-467(DUP)	6.2	165 J	1.1	4.4	
33	140	6/16/98	VPSV-468	11	126	ND	ND	
33	160	6/16/98	VPSV-469	9.6	53	ND	ND	
33	180	6/16/98	VPSV-470	7.4	47	ND	ND	
33	200	NS	NS	W	W	W	W	
34	20	6/17/98	VPSV-482	ND	ND	ND	ND	
34	35	6/17/98	VPSV-483	ND	ND	ND	ND	
34	50	6/17/98	VPSV-484	ND	4.9	ND	ND	
34	50	6/17/98	VPSV-485(DUP)	ND	4.9	ND	ND	
34	65	6/17/98	VPSV-486	ND	9.5	ND	ND	
34	80	6/17/98	VPSV-487	ND	7.1	ND	2	
34	95	6/17/98	VPSV-488	ND	61	ND	10	1.8 Chloroform
34	108	6/17/98	VPSV-489	ND	195	ND	43	

TABLE 4-9

SOIL-VAPOR RESULTS – EVENT 7

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
34	118	6/17/98	VPSV-490	ND	235	ND	42	
34	118	6/17/98	VPSV-491(DUP)	ND	257	ND	43	
35	20	6/19/98	VPSV-511	ND	ND	ND	ND	
35	35	6/19/98	VPSV-512	ND	ND	ND	ND	
35	50	6/19/98	VPSV-513	ND	ND	ND	ND	
35	60	6/19/98	VPSV-514	ND	5	ND	3.7	
35	60	6/19/98	VPSV-515(DUP)	ND	6.5	ND	4.7	
35	80	6/19/98	VPSV-516	ND	23	ND	21	
35	95	6/19/98	VPSV-517	ND	42	ND	21	
35	110	6/19/98	VPSV-518	ND	86	ND	23	
35	125	6/19/98	VPSV-519	ND	83	ND	26	
35	140	6/19/98	VPSV-520	ND	104	ND	21	
35	140	6/19/98	VPSV-521(DUP)	ND	106	ND	24	
35	155	6/19/98	VPSV-522	ND	28	4.8	33	
36	20	6/15/98	VPSV-454	ND	ND	ND	ND	
36	20	6/15/98	VPSV-455(DUP)	ND	ND	ND	ND	
36	35	6/15/98	VPSV-456	ND	15	ND	12	
36	55	6/15/98	VPSV-457	ND	24	ND	12	2.0 Chloroform
36	75	6/15/98	VPSV-458	ND	30	ND	15	6.6 Chloroform
36	92	6/15/98	VPSV-459	ND	28	ND	14	6.9 Chloroform
37	25	6/16/98	VPSV-471	ND	2.4	ND	ND	
37	40	6/16/98	VPSV-472	ND	35	2.1	33	
37	40	6/16/98	VPSV-473(DUP)	ND	39	1.8	36	
37	60	6/16/98	VPSV-474	ND	73	1.7	15	
37	80	6/16/98	VPSV-475	ND	71	3.2	24	
37	100	6/17/98	VPSV-476	ND	36	5.5	25	
37	120	6/17/98	VPSV-477	ND	30	4.5	20	1.2 Chloroform. 1.5 Fluorotrichloromethane
37	140	6/17/98	VPSV-478	ND	42	4.7	25	1.3 Chloroform. 2.3 Fluorotrichloromethane
37	140	6/17/98	VPSV-479(DUP)	ND	41	5.2	24	1.4 Chloroform. 2.1 Fluorotrichloromethane

TABLE 4-9

SOIL-VAPOR RESULTS – EVENT 7

(Concentrations in µg/L–vapor)

Soil Vapor Well Number	Depth (ft bgs)	Date	Sample Number	1,1-DCE	CCl_4	TCE	Freon 113	Other Analytes Detected
37	155	6/17/98	VPSV-480	ND	31	2.5	19	
37	170	6/17/98	VPSV-481	ND	22	2.7	19	
37	185	NS	NS	W	W	W	W	
38	25	6/18/98	VPSV-501	ND	2.9	ND	1.5	
38	45	6/18/98	VPSV-502	ND	12	1.6	11	
38	45	6/18/98	VPSV-503(DUP)	ND	12	1.6	12	
38	65	6/18/98	VPSV-504	ND	12	1.9	22	1.3 Fluorotrichloromethane
38	80	6/18/98	VPSV-505	ND	8.4	1.3	21	1.0 Fluorotrichloromethane
38	95	NS	NS	W	W	W	W	
38	110	6/18/98	VPSV-506	ND	3	1.2	3.4	
38	125	6/18/98	VPSV-507	ND	11	1.6	17	1.4 Fluorotrichloromethane
38	140	6/19/98	VPSV-508	ND	17	2.1	37	
38	140	6/19/98	VPSV-509(DUP)	ND	16	2.1	34	
38	155	6/19/98	VPSV-510	ND	20	2.8	38	
38	170	NS	NS	W	W	W	W	
39	20	6/18/98	VPSV-492	ND	ND	ND	ND	
39	35	6/18/98	VPSV-493	ND	ND	ND	ND	
39	50	6/18/98	VPSV-494	ND	ND	ND	ND	
39	70	6/18/98	VPSV-495	ND	ND	ND	ND	
39	85	6/18/98	VPSV-496	ND	7.6	2	37	
39	85	6/18/98	VPSV-497(DUP)	ND	7.2	1.9	35	
39	100	6/18/98	VPSV-498	ND	11	6.2	21	
39	110	6/18/98	VPSV-499	ND	8.2	4.1	12	
39	120	6/18/98	VPSV-500	ND	2.2	8.2	8.7	
39	130	NS	NS	W	W	W	W	

Notes:

bgs - Below ground surface.
DUP - Duplicate samples.
J - Estimated concentration.
ND - Not detected.
NS - Not sampled.
W - Sampling port inundated with water.

TABLE 4-10

RESULTS OF TITLE 26 METALS ANALYSES FOR SOIL
(Concentrations in mg/kg)

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Ag	As	Ba	Be	Cd	Co	Cr	Cr^{+6}	Cu	Hg	Mo	Ni	Pb	Sb	Se	Sr	Tl	V	Zn
1	20	8/29/94	VPSS-1	< 0.55	2.8	126	0.44	0.38	8.8	15.7	< 0.20	23.4	0.40	1.1	12.3	16.8	< 1.5	< 0.19	24.8	0.28	42.8	228
1	37	8/29/94	VPSS-2	< 0.50	2.4	186	0.37	1.7	7.0	14.2	< 0.20	7.9	0.11	< 0.30	7.6	22.5	2.4	< 0.17	16.2	0.31	44.6	2790
2	10	8/30/94	VPSS-3	< 0.50	1.5	61.8	0.37	< 0.03	3.3	7.0	< 0.20	5.6	0.12	< 0.30	3.0	1.5	< 1.4	< 0.17	18.6	0.15	28.9	21.8
2	38	8/30/94	VPSS-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
3	30	9/1/94	VPSS-5	< 0.27	3.1	11.5	1.5	< 0.02	14.7	15.1	< 0.20	47.3	< 0.05	< 0.16	8.2	2.7	2.8	< 0.09	208	< 0.13	38.1	126
3	50	9/1/94	VPSS-6	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	10	9/2/94	VPSS-7	0.42	2.9	199	0.64	< 0.02	9.8	12.2	< 0.20	18.0	< 0.05	< 0.15	7.4	2.1	2.6	< 0.09	37.7	0.41	54.0	52.4
4	20	9/2/94	VPSS-8	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	35	9/2/94	VPSS-9	0.34	3.3	104	0.33	< 0.02	5.5	12.8	< 0.20	10.5	0.36	< 0.16	4.5	1.6	< 0.76	< 0.09	16.5	0.24	48.1	33.9
4	40	9/2/94	VPSS-10	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	50	9/2/94	VPSS-11	< 0.26	5.3	46.1	0.42	< 0.02	4.4	8.6	< 0.20	9.0	0.44	0.37	6.3	2.6	< 0.72	< 0.09	24.5	< 0.13	21.7	26.0
4	61	9/2/94	VPSS-12	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	10	9/3/94	VPSS-13	< 0.33	2.0	155	0.41	< 0.02	5.3	9.0	< 0.20	9.5	< 0.05	0.29	5.3	2.0	< 0.58	< 0.09	27.7	< 0.34	32.4	35.5
6	10	9/4/94	VPSS-14	< 0.35	2.8	180	0.48	< 0.02	8.2	9.6	< 0.20	11.3	< 0.05	< 0.24	5.1	2.2	0.91	< 0.09	29.8	5.2	50.5	54.1
6	20	9/4/94	VPSS-15	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	30	9/4/94	VPSS-16	< 0.33	1.9	42.7	0.31	< 0.02	3.8	6.0	< 0.20	5.6	0.06	< 0.22	2.7	1.8	< 0.57	< 0.09	21.6	< 0.33	23.3	19.7
6	48.5	9/4/94	VPSS-17	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	51	9/4/94	VPSS-18	< 0.34	5.6	51.7	0.32	< 0.02	3.7	8.0	< 0.20	10.2	0.17	0.34	4.5	3.0	< 0.59	< 0.09	23.1	< 0.35	22.6	26.3
6	60.5	9/4/94	VPSS-19	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	70	9/4/94	VPSS-20	< 0.33	4.0	150	0.38	< 0.02	8.8	7.9	< 0.20	18.1	0.08	< 0.23	7.4	1.6	0.60	< 0.09	24.7	< 0.33	42.8	49.4
7	30	9/5/94	VPSS-21	< 0.33	6.8	91.7	0.58	< 0.02	5.9	7.3	< 0.20	18.4	0.20	< 0.23	5.8	3.8	1.2	< 0.09	25.1	< 0.34	29.8	48.2
7	50	9/5/94	VPSS-22	< 0.34	6.7	132	0.65	< 0.02	7.4	16.1	< 0.20	14.8	0.28	< 0.24	8.5	5.1	< 0.60	< 0.09	26.5	0.38	36.8	54.4
7	60	9/5/94	VPSS-23	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	10	9/8/94	VPSS-24	< 0.35	2.0	75.7	0.41	< 0.01	5.1	9.2	< 0.20	8.7	0.07	< 0.24	5.3	4.7	0.70	< 0.49	25.7	< 0.35	28.0	37.1
8	20	9/8/94	VPSS-25	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	30	9/8/94	VPSS-26	< 0.35	2.9	92.6	0.53	< 0.01	6.9	10.2	< 0.20	11.1	0.10	< 0.24	5.7	3.0	< 0.66	< 0.50	43.4	< 0.35	33.4	46.4
8	40	9/8/94	VPSS-27	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	50	9/8/94	VPSS-28	< 0.37	5.4	133	0.72	< 0.01	9.2	14.6	< 0.20	15.1	0.15	< 0.25	9.0	4.7	< 0.69	< 0.52	75.2	< 0.37	51.4	56.1
8	65	9/8/94	VPSS-29	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	81	9/9/94	VPSS-30	< 0.36	13.7	90.1	0.67	< 0.01	6.8	11.7	< 0.20	13.1	0.25	< 0.24	6.5	5.8	< 0.67	< 0.50	31.7	< 0.36	44.5	47.5
8	101	9/9/94	VPSS-31	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	10	9/10/94	VPSS-32	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	21(DUP)	9/10/94	VPSS-34	< 0.34	2.5	188	0.55	0.04	9.4	9.1	< 0.20	9.4	< 0.05	< 0.23	4.7	2.8	< 0.63	< 0.47	49.1	< 0.34	54.8	63.6
9	21.5	9/10/94	VPSS-33	< 0.34	3.3	176	0.65	0.15	10.8	14.8	< 0.20	10.3	0.06	< 0.24	7.0	3.6	< 0.64	< 0.48	50.6	< 0.35	79.0	69.6
9	40.5	9/10/94	VPSS-35	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.08	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	48	9/10/94	VPSS-36	< 0.34	14.2	50.7	1.2	0.13	8.6	5.0	< 0.20	30.4	0.08	0.34	5.3	18.3	< 0.64	< 0.48	63.6	< 0.34	34.5	66.9
9	51	9/10/94	VPSS-37	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	60.5	9/10/94	VPSS-38	< 0.33	2.5	35.1	0.37	< 0.01	5.0	4.8	< 0.20	18.1	0.07	< 0.23	4.3	3.3	< 0.62	< 0.46	16.6	< 0.33	31.0	31.9
9	80.5	9/10/94	VPSS-39	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-10

RESULTS OF TITLE 26 METALS ANALYSES FOR SOIL
(Concentrations in mg/kg)

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Ag	As	Ba	Be	Cd	Co	Cr	Cr^{+6}	Cu	Hg	Mo	Ni	Pb	Sb	Se	Sr	Tl	V	Zn
10	11	9/12/94	VPSS-40	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	20.5(DUP)	9/12/94	VPSS-42	< 0.35	4.1	132	0.66	< 0.02	7.8	8.2	< 0.20	11.6	0.06	< 0.24	6.1	3.5	2.2	< 0.09	41.4	< 0.36	31.6	53.9
10	21	9/12/94	VPSS-41	< 0.35	3.2	126	0.61	< 0.02	7.3	8.0	< 0.20	10.6	0.08	< 0.24	5.9	3.1	1.0	< 0.09	35.5	< 0.35	28.7	51.8
10	31	9/12/94	VPSS-43	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	40.5	9/12/94	VPSS-44	< 0.34	3.2	73.0	0.52	< 0.02	11.8	4.9	< 0.20	25.1	< 0.05	< 0.24	8.2	1.9	< 0.60	< 0.09	52.8	< 0.35	88.0	56.2
10	50.5	9/12/94	VPSS-45	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	60.5	9/12/94	VPSS-46	< 0.36	9.7	432	1.2	< 0.02	20.1	20.0	< 0.20	52.2	0.19	< 0.25	22.9	3.0	2.8	< 0.10	231	< 0.37	65.6	131
10	70.5	9/12/94	VPSS-47	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	11	9/17/94	VPSS-48	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	21	9/17/94	VPSS-49	< 0.35	3.1	174	0.59	< 0.05	9.8	8.7	< 0.20	12.9	0.11	< 0.24	5.3	2.4	2.5	< 0.49	33.7	< 0.63	50.5	63.4
11	31	9/17/94	VPSS-50	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	40.5	9/17/94	VPSS-51	< 0.34	1.3	118	0.38	< 0.03	7.0	8.0	< 0.20	7.9	< 0.05	< 0.23	3.9	1.3	1.4	< 0.29	33.0	< 0.37	42.4	38.5
11	41	9/17/94	VPSS-52	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	51	9/17/94	VPSS-53	< 0.35	1.2	111	0.45	< 0.03	7.1	7.1	< 0.20	8.1	0.63	< 0.24	3.8	1.3	1.3	< 0.29	29.3	< 0.37	38.8	39.6
11	68.5	9/17/94	VPSS-54	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	71	9/17/94	VPSS-55	0.44	3.1	177	0.88	< 0.03	9.1	23.6	< 0.20	12.8	0.28	< 0.24	11.1	3.1	2.9	< 0.30	36.2	< 0.38	53.5	73.3
11	99.5	9/17/94	VPSS-57	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
12	10	9/19/94	VPSS-58	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
12	25.5	9/19/94	VPSS-59	< 0.34	3.6	61.8	0.38	< 0.05	4.1	6.8	< 0.20	12.8	0.15	< 0.23	4.1	3.2	1.3	< 0.47	33.7	< 0.61	21.2	27.0
12	34	9/19/94	VPSS-60	< 0.34	2.4	65.5	0.43	< 0.03	3.5	6.1	< 0.20	12.2	0.17	< 0.23	3.9	1.8	1.4	< 0.28	28.6	< 0.36	23.4	29.0
12	40.5	9/19/94	VPSS-61	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
12	60.5	9/19/94	VPSS-62	< 0.34	3.3	83.3	0.46	< 0.03	5.3	8.7	< 0.20	16.0	0.93	0.35	5.3	1.9	1.2	< 0.28	23.0	< 0.36	31.4	37.8
12	71	9/19/94	VPSS-63	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
13	10.5	9/20/94	VPSS-64	< 0.35	3.2	160	0.56	< 0.05	8.7	9.9	< 0.20	14.1	0.12	< 0.24	5.0	3.5	2.5	< 0.49	39.5	< 0.62	54.6	65.0
13	20.5	9/20/94	VPSS-65	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
13	30.5	9/20/94	VPSS-66	0.48	20.0	63.3	1.3	< 0.05	13.6	7.6	< 0.20	36.7	0.19	< 0.24	5.0	2.1	4.2	< 0.48	95.4	< 0.62	86.9	121
14	11	9/22/94	VPSS-67	< 0.35	3.4	171	0.65	< 0.05	9.7	11.1	< 0.20	10.2	< 0.05	< 0.24	5.4	2.1	2.0	< 0.49	38.4	< 0.63	65.7	60.5
15	11	9/24/94	VPSS-68	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
15	21	9/24/94	VPSS-69	< 0.35	2.6	70.6	0.42	< 0.01	4.3	7.0	< 0.20	9.0	0.08	< 0.24	3.9	2.4	0.94	< 0.49	20.6	< 0.62	29.5	32.5
15	31	9/24/94	VPSS-70	< 0.34	1.7	66.2	0.36	< 0.05	5.0	6.1	< 0.20	8.0	0.11	< 0.23	3.7	1.6	0.89	< 0.48	19.8	< 0.61	23.8	33.1
15	57	9/24/94	VPSS-71	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
15	61	9/24/94	VPSS-72	< 0.33	5.2	60.3	0.44	< 0.05	4.6	8.3	< 0.20	11.7	< 0.05	< 0.23	5.0	2.9	1.2	< 0.47	26.8	< 0.60	28.3	32.1
15	70	9/24/94	VPSS-73	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
15	81	9/24/94	VPSS-74	< 0.33	3.2	131	0.47	< 0.05	6.9	13.6	< 0.20	19.1	0.07	0.72	7.3	2.9	2.6	< 0.47	21.1	< 0.60	35.4	49.5
16	20.5(DUP)	9/28/94	VPSS-75	< 0.33	2.0	67.8	0.33	< 0.05	4.2	7.5	< 0.20	7.7	0.10	< 0.23	3.5	2.8	0.81	< 0.47	39.8	< 0.60	25.5	28.7
16	21	9/28/94	VPSS-76	< 0.34	2.5	55.9	0.35	< 0.05	3.8	6.6	< 0.20	7.6	0.10	< 0.23	3.0	2.8	0.86	< 0.47	29.1	< 0.60	23.7	25.6
16	31	9/28/94	VPSS-77	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	41	9/28/94	VPSS-78	< 0.34	3.7	82.1	0.37	< 0.05	4.4	7.9	< 0.20	8.6	0.16	< 0.24	3.4	3.4	0.98	< 0.48	39.2	< 0.61	31.5	31.5
16	50.5	9/28/94	VPSS-80	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4-10

RESULTS OF TITLE 26 METALS ANALYSES FOR SOIL
(Concentrations in mg/kg)

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Ag	As	Ba	Be	Cd	Co	Cr	Cr^{+6}	Cu	Hg	Mo	Ni	Pb	Sb	Se	Sr	Tl	V	Zn
16	51	9/28/94	VPSS-79	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	61	9/28/94	VPSS-81	< 0.35	3.5	101	0.42	< 0.05	6.0	7.8	< 0.20	9.6	0.11	< 0.24	4.3	3.3	1.3	< 0.49	22.6	< 0.63	31.0	36.8
16	71	9/28/94	VPSS-82	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	81	9/28/94	VPSS-83	< 0.35	3.2	62.6	0.42	< 0.05	3.9	8.4	< 0.20	9.8	0.13	< 0.24	4.5	4.1	1.3	< 0.49	46.4	< 0.63	24.4	31.7
16	91	9/28/94	VPSS-84	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	101	9/28/94	VPSS-85	< 0.34	3.9	58.1	0.50	< 0.05	5.0	9.1	< 0.20	8.9	0.13	< 0.23	4.5	4.6	0.95	< 0.48	18.5	< 0.61	32.0	33.4
17	20.5	9/30/94	VPSS-86	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
17	26.5	9/30/94	VPSS-87	< 0.33	3.9	205	0.68	< 0.05	13.4	20.4	< 0.20	27.2	< 0.05	< 0.23	8.3	2.8	3.1	< 0.46	27.8	< 0.59	75.7	72.1
18	10	10/1/94	VPSS-88	< 0.35	3.7	133	0.85	< 0.05	9.3	15.8	< 0.20	18.6	0.10	< 0.24	9.9	5.5	1.7	< 0.49	34.6	< 0.63	44.1	67.2
18	34.5	10/1/94	VPSS-89	< 0.33	2.9	56.1	0.51	< 0.05	4.6	8.1	< 0.20	10.1	0.12	0.24	4.9	3.4	1.3	< 0.47	37.7	< 0.60	27.9	36.0
18	45	10/1/94	VPSS-90	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
18	50	10/1/94	VPSS-91	< 0.33	2.6	41.5	0.39	< 0.05	3.8	7.2	< 0.20	11.1	0.09	< 0.23	4.5	2.6	1.2	< 0.47	27.2	< 0.60	23.5	29.3
18	60	10/1/94	VPSS-92	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
18	70	10/1/94	VPSS-93	0.42	3.3	45.4	0.38	< 0.05	3.6	8.5	< 0.20	9.1	0.15	< 0.23	3.6	2.3	< 0.63	< 0.47	24.7	< 0.61	33.1	25.7
19	10.5	10/3/94	VPSS-94	< 0.34	1.6	42.9	0.32	< 0.05	3.2	7.0	< 0.20	8.2	0.11	< 0.23	3.0	2.6	< 0.63	< 0.47	14.5	< 0.60	28.7	30.9
19	30.5	10/3/94	VPSS-95	< 0.37	5.5	97.7	0.87	< 0.06	10.1	12.6	< 0.20	17.8	0.17	< 0.25	8.2	5.6	1.8	< 0.52	35.8	< 0.66	45.2	58.4
19A	20.5	10/4/94	VPSS-96	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
19A	40.5	10/4/94	VPSS-97	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
19A	51	10/4/94	VPSS-98	0.49	2.6	67.4	0.50	< 0.05	5.3	11.2	< 0.20	25.8	0.12	< 0.24	5.6	4.5	0.84	< 0.49	47.0	< 0.62	32.0	39.6
19A	61	10/4/94	VPSS-99	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA
19A	70.5	10/4/94	VPSS-100	< 0.43	4.6	115	0.92	< 0.07	10.4	20.5	< 0.20	23.8	0.22	< 0.30	12.6	5.6	3.1	< 0.61	39.6	< 0.78	57.7	66.0
19A	90.5	10/4/94	VPSS-101	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
19A	100.5	10/4/94	VPSS-102	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
20A	11	10/22/94	VPSS-125	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
20A	20.5(DUP)	10/22/94	VPSS-126	0.40	2.8	208	0.54	< 0.06	8.8	6.4	< 0.20	10.6	0.06	< 0.25	4.6	1.7	1.3	< 0.50	25.1	< 0.64	35.0	62.1
20A	21	10/22/94	VPSS-127	0.35	2.6	200	0.53	< 0.05	8.5	6.3	< 0.20	10.9	0.05	< 0.24	4.3	2.0	1.8	< 0.49	28.3	< 0.63	35.6	58.9
20A	50.5	10/22/94	VPSS-128	0.40	11.4	276	1.2	< 0.06	18.0	12.8	< 0.20	28.4	0.13	< 0.25	9.6	4.8	4.3	< 0.51	49.7	< 0.65	67.1	128
20A	71	10/22/94	VPSS-129	< 0.35	6.1	49.3	0.31	< 0.05	3.8	5.1	< 0.20	11.4	0.17	< 0.24	2.8	2.9	0.90	< 0.49	28.6	< 0.63	18.0	25.7
20	11	10/13/94	VPSS-114	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
20	21	10/13/94	VPSS-115	< 0.34	3.0	195	0.47	< 0.05	7.8	6.6	< 0.20	8.3	0.07	< 0.24	4.3	1.4	2.0	< 0.48	38.4	< 0.62	34.8	53.2
20	31	10/13/94	VPSS-116	< 0.36	3.4	232	0.71	< 0.06	10.9	8.6	< 0.20	14.5	0.06	< 0.25	5.6	2.1	1.9	< 0.51	38.4	< 0.65	48.3	70.8
21	9	10/8/94	VPSS-103	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
21	19(DUP)	10/8/94	VPSS-104	< 0.41	2.0	148	0.41	< 0.06	6.3	7.4	< 0.20	8.9	< 0.06	< 0.28	3.4	0.80	1.4	< 0.57	30.5	< 0.73	44.1	43.7
21	19.5	10/8/94	VPSS-105	< 0.38	2.4	151	0.42	< 0.06	6.9	6.0	< 0.20	9.3	0.06	< 0.26	3.3	1.4	1.9	< 0.54	27.4	< 0.69	36.5	47.7
21	29.5	10/8/94	VPSS-106	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
21	49	10/9/94	VPSS-107	< 0.38	3.8	97.0	0.44	< 0.06	4.1	7.2	< 0.20	10.0	0.18	< 0.26	4.6	3.1	1.2	< 0.54	24.6	< 0.69	24.8	41.8
21	59.5	10/9/94	VPSS-108	< 0.40	11.6	148	0.96	< 0.06	10.9	18.1	< 0.20	26.3	0.20	< 0.28	11.7	5.0	2.6	< 0.57	54.7	< 0.73	55.5	74.9
22	11	10/11/94	VPSS-109	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
22	20.5(DUP)	10/11/94	VPSS-110	< 0.34	3.1	169	0.47	< 0.05	7.7	8.1	< 0.20	10.3	0.06	< 0.23	4.0	1.3	1.9	< 0.48	31.4	< 0.61	47.8	51.8

TABLE 4-10

RESULTS OF TITLE 26 METALS ANALYSES FOR SOIL
(Concentrations in mg/kg)

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Ag	As	Ba	Be	Cd	Co	Cr	Cr^{+6}	Cu	Hg	Mo	Ni	Pb	Sb	Se	Sr	Tl	V	Zn
22	21	10/11/94	VPSS-111	< 0.34	2.2	149	0.36	< 0.05	6.7	8.4	< 0.20	10.1	0.08	< 0.23	3.4	1.2	0.83	< 0.48	29.8	< 0.61	48.0	42.5
22	31	10/11/94	VPSS-112	0.37	2.4	129	0.35	< 0.05	6.0	6.8	< 0.20	8.3	0.10	< 0.23	3.4	1.3	1.7	< 0.47	20.0	< 0.60	36.6	41.8
22	50.5	10/11/94	VPSS-113	< 0.33	3.7	66.6	0.34	< 0.05	3.1	8.5	< 0.20	9.5	0.16	< 0.23	4.1	2.0	1.2	< 0.46	22.0	< 0.59	18.8	29.4
23A	1.5	10/18/94	VPSS-123	< 0.34	2.3	74.4	0.25	2.3	4.6	12.4	< 0.20	22.7	0.22	2.5	5.0	71.6	< 0.64	< 0.48	26.7	< 0.61	22.0	226
23A	26	10/18/94	VPSS-124	< 0.35	6.8	68.7	0.48	< 0.06	6.4	13.2	< 0.20	19.7	0.32	< 0.24	4.9	2.7	0.80	< 0.50	24.0	< 0.63	30.1	37.5
24	10	10/15/94	VPSS-117	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
24	20	10/15/94	VPSS-118	< 0.34	3.1	87.4	0.52	< 0.05	5.5	7.0	< 0.20	9.5	0.08	< 0.23	3.8	2.0	0.67	< 0.48	25.6	< 0.61	26.3	38.3
24	29.5	10/15/94	VPSS-119	< 0.34	3.1	63.8	0.34	< 0.05	3.8	5.1	< 0.20	7.0	0.08	< 0.23	3.0	1.9	0.91	< 0.47	21.3	< 0.61	19.5	27.5
24	49.5	10/15/94	VPSS-120	< 0.34	5.2	63.6	0.42	< 0.05	4.1	6.3	< 0.20	12.2	0.14	< 0.23	3.7	3.2	< 0.64	< 0.48	31.7	< 0.61	22.1	28.1
24	59.5	10/15/94	VPSS-121	NA	NA	NA	NA	NA	NA	NA	< 0.20	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
24	69.5	10/15/94	VPSS-122	< 0.34	4.8	78.3	0.56	< 0.05	5.6	6.7	< 0.20	14.2	0.24	< 0.23	3.9	3.2	1.0	< 0.48	35.7	< 0.61	28.2	41.5
29	4	4/11/97	VPSS-148	<1.0	1.8	79.0	<0.50	<0.50	6.8	10.1	0.28	12.1	0.21	<1.0	7.2	12.1	<6.0	<0.50	32.2	<5.0	25.9	45.4
29	7	4/11/97	VPSS-149	<1.0	1.2	42.8	<0.50	<0.50	4.1	4.0	<0.01	7.6	0.21	<1.0	2.9	1.5	<6.0	<0.50	17.6	<5.0	14.2	24.2
29	10	4/11/97	VPSS-150	<1.0	2.1	72.6	<0.50	<0.50	7.0	7.6	0.013	12.0	0.12	<1.0	4.8	2.6	<6.0	<0.50	38.3	<5.0	26.8	36.1
29	15	4/11/97	VPSS-151	<1.0	2.0	54.9	<0.50	<0.50	5.6	6.7	0.011	10.6	0.16	<1.0	4.2	2.8	<6.0	<0.50	30.3	<5.0	18.9	31.5
29	20	4/11/97	VPSS-152	<1.0	4.3	64.5	<0.50	<0.50	5.8	7.6	<0.01	13.3	0.067	<1.0	5.0	3.4	<6.0	<0.50	29.4	<5.0	20.3	31.5
29	20(DUP)	4/11/97	VPSS-153	<1.0	5.2	74.9	<0.50	<0.50	7.5	9.9	<0.01	17.2	0.26	<1.0	6.6	4.1	<6.0	<0.50	44.7	<5.0	27.5	38.7
29	30	4/11/97	VPSS-154	<1.0	4.1	72.3	<0.50	<2.5	8.8	11.9	<0.01	17.1	0.22	<1.0	7.6	4.1	<6.0	<0.50	49.1	<5.0	30.9	46.4
29	40	4/11/97	VPSS-155	<1.0	2.2	136	<0.50	<2.5	8.9	17.8	<0.01	21.7	0.33	1.7	6.8	2.5	<6.0	<1.0	<1.0	<5.0	27.8	55.5
29	49	4/12/97	VPSS-156	<1.0	6.4	102	<0.50	<0.50	8.9	11.7	<0.10	36.7	0.11	<1.0	10.2	2.7	<6.0	<1.0	44.2	<5.0	35.4	39.0
29	60	4/12/97	VPSS-157	<1.0	2.6	77.8	<0.50	<0.50	5.2	5.7	<0.10	8.8	0.16	<1.0	4.2	2.1	<6.0	<1.0	28.3	<5.0	22.3	24.5
29	70	4/12/97	VPSS-158	<1.0	2.3	72.6	<0.50	<0.50	<5.0	5.9	<0.10	13.1	0.18	<1.0	4.1	1.9	<6.0	<1.0	18.5	<5.0	17.8	28.2
29	79.5	4/12/97	VPSS-159	<1.0	2.4	41.7	<0.50	<0.50	<5.0	4.2	<0.10	9.5	0.084	<1.0	<4.0	2.2	<6.0	<1.0	23.7	<5.0	14.3	31.3
30	5	4/1/97	VPSS-130	<1.0	2.0	67	<0.50	<0.50	5.1	4.1	<0.10	14.7	<0.033	<1.0	<4.0	3.2	<6.0	<1.0	17.6	<5.0	18.5	32.9
30	10	4/1/97	VPSS-131	<1.0	2.1	64.8	<0.50	<0.50	7.5	9.8	<0.10	12.1	0.14	<1.0	6.2	3.1	<6.0	<1.0	32.3	<5.0	31.3	40.7
30	15	4/1/97	VPSS-132	<1.0	5.6	35.1	<0.50	<0.50	3.9	3.7	<0.10	8.7	0.10	<1.0	2.7	2.8	<6.0	<1.0	28.8	<5.0	14.6	24.7
30	20	4/1/97	VPSS-133	<1.0	2.5	114	<0.50	<0.50	8.7	10.9	<0.10	18.7	0.10	1.5	5.7	2.3	<6.0	<1.0	26.8	<5.0	23.2	63.3
30	30	4/1/97	VPSS-134	<1.0	6.2	73.8	<0.50	<0.50	6.9	11.0	<0.10	15.3	0.24	<1.0	6.2	4.4	<6.0	<1.0	36.9	<5.0	24.1	39.7
30	40	4/2/97	VPSS-135	<1.0	2.4	62.9	<0.50	<0.50	<5.0	8.5	<0.10	13.0	0.22	1.1	3.4	2.2	<6.0	<1.0	45.0	<5.0	16.1	32.9
30	50	4/2/97	VPSS-136	<1.0	5.0	119	<0.50	<0.50	12.0	10.4	<0.10	22.7	0.21	<1.0	9.8	2.8	<6.0	<1.0	25.7	<5.0	40.5	52.6
30	60	4/2/97	VPSS-137	<1.0	3.6	77.5	<0.50	<0.50	6.0	10.0	<0.10	13.0	0.14	<1.0	5.7	2.6	<6.0	<1.0	23.9	<5.0	20.5	37.0
30	69.5	4/2/97	VPSS-138	<1.0	3.7	127	<0.50	<0.50	11.1	7.7	<0.10	41.1	0.15	<1.0	8.5	2.1	<6.0	<1.0	24.0	<5.0	36.9	51.2
31	5	4/8/97	VPSS-139	<1.0	1.4	39.5	<0.50	<0.50	<5.0	4.8	<0.01	6.4	0.21	<1.0	<4.0	1.6	<6.0	<1.0	24.3	<5.0	16.7	22.9
31	10	4/8/97	VPSS-140	<1.0	1.1	46.3	<0.50	<0.50	5.5	3.7	<0.01	13.0	0.070	<1.0	<4.0	15.1	<6.0	<1.0	5.2	<5.0	16.4	43.3
31	15	4/8/97	VPSS-141	<1.0	2.3	74	<0.50	<0.50	6.1	8.4	<0.01	10.2	0.17	<1.0	6.5	2.2	<6.0	<1.0	28.0	<5.0	23.3	33.8
31	20	4/8/97	VPSS-142	<1.0	2.3	74.3	<0.50	<0.50	7.2	8.3	<0.01	7.2	0.048	1.2	<4.0	0.92	<6.0	<1.0	17.8	<5.0	27.6	34.3
31	30	4/8/97	VPSS-143	<1.0	2.6	229	<0.50	<5.0	19.1	38.5	<0.01	4.5	0.080	<1.0	18.9	1.0	<60.0	<10.0	11.5	<10.0	48.3	105
31	40	4/8/97	VPSS-144	<1.0	4.3	66.8	<0.50	<0.50	7.6	9.0	<0.01	15.1	1.20	<1.0	5.8	2.9	<6.0	<1.0	31.5	<5.0	27.4	39.3
31	50	4/8/97	VPSS-145	<1.0	7.6	110	<0.50	<2.5	12.8	17.2	<0.01	20.9	0.69	<1.0	10.9	4.8	<6.0	<1.0	50.9	<5.0	45.1	62.3

TABLE 4-10

RESULTS OF TITLE 26 METALS ANALYSES FOR SOIL

(Concentrations in mg/kg)

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Ag	As	Ba	Be	Cd	Co	Cr	Cr^{+6}	Cu	Hg	Mo	Ni	Pb	Sb	Se	Sr	Tl	V	Zn
31	59.5	4/8/97	VPSS-146	<1.0	4.6	62.9	<0.50	<0.50	7.3	10.1	<0.01	10.8	0.17	<1.0	5.0	3.6	<6.0	<1.0	26.8	<5.0	36.2	35.6
31	70	4/9/97	VPSS-147	<1.0	3.3	50.7	<0.50	<0.50	4.3	6.3	<0.01	9.3	0.11	<1.0	<4.0	2.4	<6.0	<0.50	32.6	<5.0	20.1	27.2
BG-1	25	10/1/94	SS-1	< 1	< 10	88	< 0.5	< 0.5	< 5	9.0	NA	8.4	0.04	< 5	6.9	< 10	< 5	< 5	25	< 10	32	35
BG-2	18	10/1/94	SS-2	< 1	< 10	38	< 0.5	< 0.5	< 5	4.8	NA	4.5	0.07	< 5	< 4	< 10	< 5	< 5	21	< 10	20	25
BG-1A	20.5(DUP)	10/1/94	SS-3	< 0.33	2.0	84.3	0.40	< 0.05	5.0	11.1	< 0.20	10.2	0.06	< 0.23	4.6	6.2	1.0	< 0.47	24.6	< 0.60	29.1	37.7
BG-1A	21	10/1/94	SS-4	< 0.33	2.2	106	0.58	< 0.05	7.0	12.4	< 0.20	11.5	< 0.05	< 0.23	6.7	5.2	1.5	< 0.46	26.7	< 0.59	33.7	41.8
BG-2A	18	10/1/94	SS-5	< 0.33	2.1	55.0	0.35	< 0.01	3.2	4.4	< 0.20	8.9	0.09	< 0.23	2.6	2.5	< 0.63	< 0.09	19.6	< 0.12	20.4	31.5
TP-1	5-5.5	4/14/97	VPSS-160	<1.0	3.1	44.7	<0.50	<0.50	<5.0	4.1	<0.10	12.4	<0.033	<1.0	<4.0	3.6	<6.0	<1.0	23.4	<5.0	15.1	31.5
TP-1	2.4	4/14/97	VPSS-161	<1.0	2.2	39.7	<0.50	<0.50	5.5	7.1	<0.10	11.2	0.30	<1.0	4.8	11.4	<6.0	<1.0	22.4	<5.0	20.1	45.9
TP-2	1-1.3	4/14/97	VPSS-162	<1.0	1.9	41.5	<0.50	<0.50	<5.0	7.8	<0.10	11.7	<0.033	<1.0	<4.0	25.8	<6.0	<1.0	22.1	<5.0	15.5	129
TP-2	5-5.5	4/14/97	VPSS-163	<1.0	2.2	41.3	<0.50	<0.50	<5.0	15.3	<0.10	8.1	<0.033	<1.0	<4.0	3.5	<6.0	<1.0	22.2	<5.0	19.3	32.5
TP-3	2.2-2.7	4/14/97	VPSS-164	<1.0	2.4	97.3	<0.50	<0.50	10.3	10.6	<0.10	16.2	<0.033	<1.0	6.9	6.2	<6.0	<1.0	40.3	<5.0	39.5	55.7
TP-3	4.5-5.5	4/14/97	VPSS-165	<1.0	2.0	54.1	<0.50	<0.50	6.4	7.6	<0.10	10.7	<0.033	<1.0	4.8	2.8	<6.0	<1.0	36.3	<5.0	25.4	36.0
TP-1A	2-2.5	6/10/99	VPSS-166	<2.1	2.4	54.7	0.31 B	<5.3	4.9 B	9.1	0.131	9.9	0.13	<4.2	4.3	6.2	3.2 B	<5.3	34.9	0.85 B	34.5	37.2
TP-1A	4.7-5.5	6/10/99	VPSS-167	<2.1	4.7	51.8	0.36 B	<5.3	5.3	9.6	0.070	12.5	0.068	<4.2	5.9	3.7	<6.3	<5.3	32.6	0.43 B	29.8	31.0
TP-2A	1-1.5	6/10/99	VPSS-168	<2.2	2.4	75.9	0.26 B	3.4 B	5.9	23.9	0.124	20.1	0.26	<4.8	10.5	72.1	<6.7	<5.6	39.0	0.86 B	67.6	279
TP-2A	5-5.5	6/10/99	VPSS-169	<2.1	3.0	21.3	0.37 B	0.8 B	6.6	33.9	0.836	19.8	0.13	<4.3	10.1	4.7	<6.4	<5.3	108	0.67 B	29.0	93.5
TP-3A	1.5-2.5	6/10/99	VPSS-170	<2.1	2.5	75.5	0.52	<5.2	7.8	18.8	0.078	14.0	0.11	<4.1	12.0	8.4	<6.2	<5.2	28.9	0.79 B	35.5	48.4
TP-3A	5-5.5	6/10/99	VPSS-171	<2.1	4.5	67.3	0.41 B	<5.3	6.7	12.1	0.145	18.4	0.18	<4.3	6.0	4.5	<6.4	<5.3	32.8	<1.1	44.1	34.8

Notes:

BG – Background samples.
bgs – Below grade surface.
DUP – Duplicate samples.
NA – Not analyzed.
TP – Test pit.

TABLE 4-11

BACKGROUND VALUES FOR OU-2 SOIL AND DATA FROM OTHER STUDIES

Analyte	JPL OU-2 Soil Background	California Soils [1]		Western Conterminous United States [2]	
	Range of Detections *(5 samples)*	Range of Data *(50 Samples)*	Arithmetic Mean	Range of Data *(approximately 770 samples)*	Arithmetic Mean
Antimony	1.0 - 1.5	0.15 - 2.0	0.60	< 1 - 2.6	0.47
Arsenic	2.0 - 2.2	0.60 - 11	3.5	1.98 - 97	5.5
Barium	38 - 106	130 - 1400	510	70 - 5000	580
Beryllium	0.35 - 0.58	0.25 - 2.7	1.3	< 1 - 15	0.68
Cadmium [3]	Not detected	0.050 - 1.7	0.36	NA	-
Chromium	4.4 - 12.4	23 - 1600	120	3 - 2000	41
Chromium VI [3]	Not detected	NA	-	NA	- -
Cobalt	3.2 - 7.0	2.7 - 47	15	< 3 - 50	7.1
Copper	4.5 - 11.5	9.1 - 96	29	2 - 30	21
Lead	2.5 - 6.2	12 - 97	24	< 10 - 700	17
Mercury	0.04 - 0.09	0.050 - 0.90	0.26	< 0.01 - 4.6	0.046
Molybdenum [3]	Not detected	0.10 - 9.6	1.3	< 3 - 7	0.85
Nickel	2.6 - 6.9	9.0 - 510	57	< 5 - 700	15
Selenium [3]	Not detected	0.015 - 0.43	0.058	< 0.1 - 4.3	0.23
Silver [3]	Not detected	0.10 - 8.3	0.80	NA	- -
Strontium	19.6 - 26.7	20 - 270	130	10 - 3000	200
Thallium [3]	Not detected	0.17 - 1.1	0.56	NA	- -
Vanadium	20 - 33.7	39 - 290	110	7 - 500	70
Zinc	25 - 41.8	88 - 240	150	< 20 - 1500	160

Notes:

Data presented in mg/kg.

[1] Bradford and others, 1996.

[2] Shacklette and Boerngen, 1984.

NA - Not available.

[3] Range of Detection Limits

Cadmium	0.01 – 0.5
Chromium VI	0.20
Molybdenum	0.23 – 5.0
Selenium	0.09 – 5.0
Silver	0.3 – 1.0
Thallium	0.12 - 10

TABLE 4-12

SEMI-VOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES ABOVE THE MDL

(Concentrations in µg/kg)

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	bis(2-ethylhexyl)-phthalate	Butylbenzyl-phthalate	Di-n-butyl-phthalate	N-nitroso-di-n-dipropylamine
1	37*	8/29/94	VPSS- 2	86 J	ND	ND	ND
7	30	9/5/94	VPSS-21	1900	ND	ND	ND
	50	9/5/94	VPSS-22	ND	ND	ND	ND
8	81*	9/9/94	VPSS-30	170 J	ND	ND	ND
12	60.5*	9/19/94	VPSS-62	360	ND	ND	ND
19A	51	10/4/94	VPSS-98	450	ND	ND	ND
	70.5	10/4/94	VPSS-100	ND	ND	ND	ND
22	50.5*	10/11/94	VPSS-113	150 J	ND	ND	ND
23A	1.5	10/18/94	VPSS-123	150 J	ND	ND	ND
	26	10/18/94	VPSS-124	ND	ND	ND	ND
30	30	4/1/97	VPSS-134	ND	ND	ND	500
	40	4/2/97	VPSS-135	ND	ND	ND	ND
TP-2	1-1.3	4/14/97	VPSS-162	440 J	160 J	250 J	ND
	5-5.5	4/14/97	VPSS-163	ND	ND	ND	ND
TP-2A	1-1.5	6/10/99	VPSS-168	480	ND	ND	ND
	5-5.5	6/10/99	VPSS-169	50 J	ND	ND	ND

Notes:

bgs – Below ground surface.

J – Estimated result; value is less than reporting limit.

MDL – Method detection limit.

ND – Non-detect (Detection limits differ from sample-to-sample due to varying moisture contents of samples and to sample dilution. Complete SVOC analytical results are tabulated in Appendix F1.)

TP – Test pit.

* – Deepest sample that was analyzed for this boring.

For PAHs results, refer to Table 4-13.

TABLE 4-13

POLYNUCLEAR AROMATIC HYDROCARBONS DETECTED IN SOIL SAMPLES ABOVE THE MDL

(Concentrations in µg/kg)

Method	Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Fluoran-thene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Chrysene	Phenan-threne	Benzo(g,h,i)-perylene	Indeno(1,2,3 -cd) Pyrene	Pyrene
8270	12	10	9/19/94	VPSS-58	110 J	ND	ND	ND	ND	ND	ND	ND	100 J
		25.5	9/19/94	VPSS-59	ND	ND	ND	ND	ND	ND	ND	ND	ND
8310	30	10	4/1/97	VPSS-131	ND	3.6	5.8	6.3	ND	ND	11	ND	ND
		15	4/1/97	VPSS-132	ND	ND	ND	ND	ND	ND	ND	ND	ND
8270	TP-2	1-1.3	4/14/97	VPSS-162	46 J	ND	ND	ND	ND	22 J	ND	ND	55 J
		5-5.5	4/14/97	VPSS-163	ND	ND	ND	ND	ND	ND	ND	ND	ND
8310	TP-2	1-1.3	4/14/97	VPSS-162	ND	ND	ND	6.4	ND	ND	48	67	ND
		5-5.5	4/14/97	VPSS-163	ND	ND	ND	ND	ND	ND	ND	ND	ND
8310	TP-3	2.2-2.7	4/14/97	VPSS-164	ND	ND	4.2	ND	ND	ND	11	ND	ND
		4.5-5.5	4/14/97	VPSS-165	ND	ND	ND	ND	ND	ND	ND	ND	ND
8310	TP-2A	1-1.5	6/10/99	VPSS-168	24	7.7 J	ND	8.8	18 J	12 J	ND	ND	ND
		5-5.5	6/10/99	VPSS-169	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

bgs – Below ground surface.

J – Estimated result; value is less than reporting limit.

MDL – Method detection limit.

ND – Non-detect (Detection limits differ from sample-to-sample due to varying moisture contents of samples and to sample dilution. Complete PAH analytical results are tabulated in Appendix F2.)

TP – Test pit.

TABLE 4-14

RESULTS OF POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES FOR SOIL

(Concentrations in µg/kg)

Boring Number	Depth (ft bgs)	Date	Sample Number	Arochlor-						
				1016	1221	1232	1242	1248	1254	1260
29	4	4/11/97	VPSS-148	ND	ND	ND	ND	ND	ND	ND
29	7	4/11/97	VPSS-149	ND	ND	ND	ND	ND	ND	ND
29	10	4/11/97	VPSS-150	ND	ND	ND	ND	ND	ND	ND
29	15	4/11/97	VPSS-151	ND	ND	ND	ND	ND	ND	ND
29	20	4/11/97	VPSS-152	ND	ND	ND	ND	ND	ND	ND
29	20 (DUP)	4/11/97	VPSS-153	ND	ND	ND	ND	ND	ND	ND
29	30	4/11/97	VPSS-154	ND	ND	ND	ND	ND	ND	ND
29	40	4/11/97	VPSS-155	ND	ND	ND	ND	ND	ND	ND
29	49	4/12/97	VPSS-156	ND	ND	ND	ND	ND	ND	ND
29	60	4/12/97	VPSS-157	ND	ND	ND	ND	ND	ND	ND
29	70	4/12/97	VPSS-158	ND	ND	ND	ND	ND	ND	ND
29	79.5	4/12/97	VPSS-159	ND	ND	ND	ND	ND	ND	ND
30	5	4/1/97	VPSS-130	ND	ND	ND	ND	ND	ND	ND
30	10	4/1/97	VPSS-131	ND	ND	ND	ND	ND	ND	ND
30	15	4/1/97	VPSS-132	ND	ND	ND	ND	ND	ND	ND
30	20	4/1/97	VPSS-133	ND	ND	ND	ND	ND	ND	ND
30	30	4/1/97	VPSS-134	ND	ND	ND	ND	ND	ND	ND
30	40	4/2/97	VPSS-135	ND	ND	ND	ND	ND	ND	ND
30	50	4/2/97	VPSS-136	ND	ND	ND	ND	ND	ND	ND
30	60	4/2/97	VPSS-137	ND	ND	ND	ND	ND	ND	ND
30	69.5	4/2/97	VPSS-138	ND	ND	ND	ND	ND	ND	ND
31	5	4/8/97	VPSS-139	ND	ND	ND	ND	ND	ND	ND
31	10	4/8/97	VPSS-140	ND	ND	ND	ND	ND	ND	ND
31	15	4/8/97	VPSS-141	ND	ND	ND	ND	ND	ND	ND
31	20	4/8/97	VPSS-142	ND	ND	ND	ND	ND	ND	ND

TABLE 4-14

RESULTS OF POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES FOR SOIL

(Concentrations in µg/kg)

Boring Number	Depth (ft bgs)	Date	Sample Number	Arochlor-						
				1016	1221	1232	1242	1248	1254	1260
31	30	4/8/97	VPSS-143	ND	ND	ND	ND	ND	ND	ND
31	40	4/8/97	VPSS-144	ND	ND	ND	ND	ND	ND	ND
31	50	4/8/97	VPSS-145	ND	ND	ND	ND	ND	ND	ND
31	59.5	4/8/97	VPSS-146	ND	ND	ND	ND	ND	ND	ND
31	70	4/9/97	VPSS-147	ND	ND	ND	ND	ND	ND	ND
TP-1	5-5.5	4/14/97	VPSS-160	ND	ND	ND	ND	ND	ND	ND
TP-1	2.4	4/14/97	VPSS-161	ND	ND	ND	ND	ND	ND	ND
TP-2	1-1.3	4/14/97	VPSS-162	ND	ND	ND	ND	ND	200	270
TP-2	5-5.5	4/14/97	VPSS-163	ND	ND	ND	ND	ND	18J	21J
TP-3	2.2-2.7	4/14/97	VPSS-164	ND	ND	ND	ND	ND	ND	ND
TP-3	4.5-5.5	4/14/97	VPSS-165	ND	ND	ND	ND	ND	ND	ND
TP-1A	2-2.5	6/10/99	VPSS-166	ND	ND	ND	ND	ND	ND	ND
TP-1A	4.7-5.5	6/10/99	VPSS-167	ND	ND	ND	33J	ND	ND	ND
TP-2A	1-1.5	6/10/99	VPSS-168	ND	ND	ND	ND	ND	ND	ND
TP-2A	5-5.5	6/10/99	VPSS-169	ND	ND	ND	ND	ND	ND	ND
TP-3A	1.5-2.5	6/10/99	VPSS-170	ND	ND	ND	ND	ND	ND	ND
TP-3A	5-5.5	6/10/99	VPSS-171	ND	ND	ND	ND	ND	ND	ND
Minimum RL				33	33	33	33	33	33	33
Maximum RL				38	38	38	38	38	38	38

Notes:

bgs – Below ground surface.
J – Estimated value below the reporting limit.
ND – Not detected at maximum RL.
RL – Reporting limit.
TP – Test pit.

TABLE 4-15

RESULTS FOR DIOXINS AND FURANS ANALYSES FOR SOIL

(Concentrations in µg/kg)

				DIOXINS							FURANS									
Boring/Test Pit Number	Depth (ft bgs)	Date	Sample Number	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,6,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8,9-OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,6,7,8,9-OCDF
29	4	4/11/97	VPSS-148	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	7	4/11/97	VPSS-149	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	10	4/11/97	VPSS-150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	15	4/11/97	VPSS-151	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	20	4/11/97	VPSS-152	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	20 (DUP)	4/11/97	VPSS-153	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	30	4/11/97	VPSS-154	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	40	4/11/97	VPSS-155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	49	4/12/97	VPSS-156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	60	4/12/97	VPSS-157	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	70	4/12/97	VPSS-158	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	79.5	4/12/97	VPSS-159	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	5	4/1/97	VPSS-130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	10	4/1/97	VPSS-131	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	15	4/1/97	VPSS-132	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	20	4/1/97	VPSS-133	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	30	4/1/97	VPSS-134	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	40	4/2/97	VPSS-135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	50	4/2/97	VPSS-136	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	60	4/2/97	VPSS-137	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	69.5	4/2/97	VPSS-138	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	5	4/8/97	VPSS-139	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	10	4/8/97	VPSS-140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	15	4/8/97	VPSS-141	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	20	4/8/97	VPSS-142	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	30	4/8/97	VPSS-143	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	40	4/8/97	VPSS-144	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	50	4/8/97	VPSS-145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	59.5	4/8/97	VPSS-146	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	70	4/9/97	VPSS-147	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-1	5-5.5	4/14/97	VPSS-160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-1	2.4	4/14/97	VPSS-161	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-2	1-1.3	4/14/97	VPSS-162	ND	ND	ND	ND	ND	ND	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-2	5-5.5	4/14/97	VPSS-163	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-3	2.2-2.7	4/14/97	VPSS-164	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-3	4.5-5.5	4/14/97	VPSS-165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-1A	2-2.5	6/10/99	VPSS-166	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-1A	4.7-5.5	6/10/99	VPSS-167	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-2A	1-1.5	6/10/99	VPSS-168	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-2A	5-5.5	6/10/99	VPSS-169	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-3A	1.5-2.5	6/10/99	VPSS-170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-3A	5-5.5	6/10/99	VPSS-171	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Minimum RL				0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Maximum RL				0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

Note:

ND - Not detected at maximum RL.

RL - Reporting limit.

TP - Test pit.

TABLE 4-16

VOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES ABOVE THE MDL

(Concentrations in µg/kg)

Test Pit Number	Depth (ft bgs)	Date	Sample Number	Acetone	Bromodichloro-methane	Chloroform	Methylene Chloride
TP-1	2.4	7/14/97	VPSS- 161	ND	ND	ND	5 J,B
TP-1	5-5.5	7/14/97	VPSS-160	ND	ND	ND	3 J,B
TP-1A	2-2.5	6/10/99	VPSS-166	ND	2.9 J	4.5 J	ND
TP-1A	4.7-5.5	6/10/99	VPSS-167	6.3 J	2.8 J	4.5 J	ND
TP-2	1-1.3	7/14/99	VPSS-162	ND	ND	ND	5 J,B
TP-2	5-5.5	7/14/99	VPSS-163	ND	ND	ND	3 J
TP-2A	1-1.5	6/10/99	VPSS-168	ND	3.2 J	5.2 J	ND
TP-3	2.2-2.7	7/14/99	VPSV-164	ND	ND	ND	3 J,B
TP-3	4.5-5.5	7/14/99	VPSS-165	ND	ND	ND	4 J,B
TP-3A	1.5-2.5	6/10/99	VPSS-170	5.4 J,B	ND	ND	ND

Notes:

bgs – Below ground surface.

B – Compound detected in method blank.

J – Estimated result; value is less than reporting limit.

MDL – Method detection limit.

ND – Non-detect (Detection limits differ from sample-to-sample due to varying moisture contents of samples and to sample dilution. Complete VOC analytical results are tabulated in Appendix F3.)

TP – Test pit.

TABLE 4-17

RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
1	20	8/29/94	VPSS-1	< 0.10	48	6500	NA	9.9	5.9	90.1	NA	NA
1	37	8/29/94	VPSS-2	< 0.10	< 1.0	11	NA	2.8	8.1	97.2	NA	NA
2	10	8/30/94	VPSS-3	< 0.10	< 1.1	< 1	NA	1.6	7.1	98.4	NA	NA
2	38	8/30/94	VPSS-4	NA	NA	NA	NA	1.4	NA	98.6	NA	NA
3	30	9/1/94	VPSS-5	< 0.10	< 2.0	< 1	NA	7.0	7.4	93.0	NA	NA
3	50	9/1/94	VPSS-6	NA	NA	NA	NA	3.3	7.7	96.7	NA	NA
4	10	9/2/94	VPSS-7	< 0.10	4.0	< 1	NA	4.1	6.6	95.9	NA	NA
4	20	9/2/94	VPSS-8	NA	NA	NA	NA	9.6	5.2	90.4	NA	NA
4	35	9/2/94	VPSS-9	< 0.10	7.8	< 1	NA	8.1	4.7	91.9	NA	NA
4	40	9/2/94	VPSS-10	NA	NA	NA	NA	7.1	7.2	92.9	NA	NA
4	50	9/2/94	VPSS-11	< 0.10	< 2.0	< 1	NA	3.3	7.9	96.7	NA	NA
4	61	9/2/94	VPSS-12	NA	NA	NA	NA	11.8	8.3	88.2	NA	NA
5	10	9/3/94	VPSS-13	< 0.10	< 2.0	< 1	NA	4.2	6.8	95.8	NA	NA
6	10	9/4/94	VPSS-14	< 0.10	2.4	< 1	NA	9.7	6.9	90.3	NA	NA
6	20	9/4/94	VPSS-15	NA	NA	NA	NA	5.1	7.0	94.9	NA	NA
6	30	9/4/94	VPSS-16	< 0.10	< 2.0	< 1	NA	2.5	6.9	97.5	NA	NA
6	48.5	9/4/94	VPSS-17	NA	NA	NA	NA	11.2	7.5	88.8	NA	NA
6	51	9/4/94	VPSS-18	< 0.10	< 2.0	< 1	NA	6.1	7.2	93.9	NA	NA
6	60.5	9/4/94	VPSS-19	NA	NA	NA	NA	13.7	7.3	86.3	NA	NA
6	70	9/4/94	VPSS-20	< 0.10	< 2.0	< 1	NA	3.1	7.8	96.9	NA	NA
7	30	9/5/94	VPSS-21	< 0.10	2.1	< 1	NA	3.9	7.5	96.1	NA	NA
7	50	9/5/94	VPSS-22	< 0.10	< 2.0	7	NA	8.1	7.8	91.9	NA	NA
7	60	9/5/94	VPSS-23	NA	NA	NA	NA	11.4	7.7	88.6	NA	NA
8	10	9/8/94	VPSS-24	< 0.10	4.6	< 1	NA	7.5	7.4	92.5	NA	NA
8	20	9/8/94	VPSS-25	NA	NA	NA	NA	5.5	6.6	94.5	NA	NA
8	30	9/8/94	VPSS-26	< 0.10	7.3	< 1	NA	9.2	6.1	90.8	NA	NA

TABLE 4-17

RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
8	40	9/8/94	VPSS-27	NA	NA	NA	NA	8.4	7.0	91.6	NA	NA
8	50	9/8/94	VPSS-28	< 0.10	7.7	< 1	NA	13.3	6.7	86.7	NA	NA
8	65	9/8/94	VPSS-29	NA	NA	NA	NA	6.9	7.8	93.1	NA	NA
8	81	9/9/94	VPSS-30	< 0.10	3.8	11	NA	10.4	7.2	89.6	NA	NA
8	101	9/9/94	VPSS-31	NA	NA	NA	NA	4.8	7.2	95.2	NA	NA
9	10	9/10/94	VPSS-32	NA	NA	NA	NA	4.3	NA	95.7	NA	NA
9	21(DUP)	9/10/94	VPSS-34	< 0.10	11.8	< 1.0	NA	5.7	6.4	94.3	NA	NA
9	21.5	9/10/94	VPSS-33	< 0.10	16.7	< 1.0	NA	6.9	6.4	93.1	NA	NA
9	40.5	9/10/94	VPSS-35	NA	NA	NA	NA	1.8	NA	98.2	NA	NA
9	48	9/10/94	VPSS-36	< 0.10	11.6	< 1.0	NA	6.6	6.4	93.4	NA	NA
9	51	9/10/94	VPSS-37	NA	NA	NA	NA	12.3	NA	87.7	NA	NA
9	60.5	9/10/94	VPSS-38	< 0.10	3.8	< 1.0	NA	3.2	6.9	96.8	NA	NA
9	80.5	9/10/94	VPSS-39	NA	NA	NA	NA	2.7	6.7	97.3	NA	NA
10	11	9/12/94	VPSS-40	NA	NA	NA	NA	6.2	6.9	93.8	NA	NA
10	20.5(DUP)	9/12/94	VPSS-42	< 0.10	< 2.0	< 1	NA	8.6	6.9	91.4	NA	NA
10	21	9/12/94	VPSS-41	< 0.10	< 2.0	< 1	NA	8.3	6.9	91.7	NA	NA
10	31	9/12/94	VPSS-43	NA	NA	NA	NA	14.9	6.8	85.1	NA	NA
10	40.5	9/12/94	VPSS-44	< 0.10	< 2.0	< 1	NA	7.6	7.1	92.4	NA	NA
10	50.5	9/12/94	VPSS-45	NA	NA	NA	NA	7.1	7.1	92.9	NA	NA
10	60.5	9/12/94	VPSS-46	< 0.10	< 2.0	< 1	NA	12.1	6.8	87.9	NA	NA
10	70.5	9/12/94	VPSS-47	NA	NA	NA	NA	5.3	7.3	94.7	NA	NA
11	11	9/17/94	VPSS-48	NA	NA	NA	NA	5.7	6.6	94.3	NA	NA
11	21	9/17/94	VPSS-49	< 0.10	3.6	< 1	NA	8.9	7.3	91.1	NA	NA
11	31	9/17/94	VPSS-50	NA	NA	NA	NA	9.7	7.0	90.3	NA	NA
11	40.5	9/17/94	VPSS-51	< 0.10	3.3	< 1	NA	6.7	6.8	93.3	NA	NA
11	41	9/17/94	VPSS-52	NA	NA	NA	NA	5.5	7.0	94.5	NA	NA

TABLE 4-17

RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
11	51	9/17/94	VPSS-53	< 0.10	3.4	< 1	NA	8.2	7.0	91.8	NA	NA
11	68.5	9/17/94	VPSS-54	NA	NA	NA	NA	2.9	7.1	97.1	NA	NA
11	71	9/17/94	VPSS-55	< 0.10	2.4	2	NA	9.1	7.0	90.9	NA	NA
11	99.5	9/17/94	VPSS-57	NA	NA	NA	NA	4.8	7.5	95.2	NA	NA
12	10	9/19/94	VPSS-58	NA	NA	NA	NA	5.1	8.1	94.9	NA	NA
12	25.5	9/19/94	VPSS-59	< 0.10	5.7	5	NA	5.0	7.6	95.0	NA	NA
12	34	9/19/94	VPSS-60	< 0.10	9.5	4	NA	4.6	7.2	95.4	NA	NA
12	40.5	9/19/94	VPSS-61	NA	NA	NA	NA	4.2	7.3	95.8	NA	NA
12	60.5	9/19/94	VPSS-62	< 0.10	< 2.0	94	NA	5.7	8.3	94.3	NA	NA
12	71	9/19/94	VPSS-63	NA	NA	NA	NA	3.1	7.8	96.9	NA	NA
13	10.5	9/20/94	VPSS-64	< 0.10	3.1	7	NA	8.3	7.2	91.7	NA	NA
13	20.5	9/20/94	VPSS-65	NA	NA	NA	NA	5.5	7.4	94.5	NA	NA
13	30.5	9/20/94	VPSS-66	< 0.10	< 2.0	< 1	NA	6.7	7.1	93.3	NA	NA
14	11	9/22/94	VPSS-67	< 0.10	2.3	1	NA	8.7	6.8	91.3	NA	NA
15	11	9/24/94	VPSS-68	NA	NA	NA	NA	19.0	7.5	81.0	NA	NA
15	21	9/24/94	VPSS-69	< 0.10	2.2	< 1	NA	7.8	8.1	92.2	NA	NA
15	31	9/24/94	VPSS-70	< 0.10	< 2.0	< 1	NA	6.9	7.9	93.1	NA	NA
15	57	9/24/94	VPSS-71	NA	NA	NA	NA	3.8	7.8	96.2	NA	NA
15	61	9/24/94	VPSS-72	< 0.10	< 2.0	< 1	NA	5.0	7.4	95.0	NA	NA
15	70	9/24/94	VPSS-73	NA	NA	NA	NA	2.9	7.7	97.1	NA	NA
15	81	9/24/94	VPSS-74	< 0.10	< 2.0	45	NA	4.8	7.7	95.2	NA	NA
16	20.5(DUP)	9/28/94	VPSS-75	< 0.10	13.4	< 1	NA	4.6	6.7	95.4	NA	NA
16	21	9/28/94	VPSS-76	< 0.10	18.2	< 1	NA	4.9	6.4	95.1	NA	NA
16	31	9/28/94	VPSS-77	NA	NA	NA	NA	5.6	6.8	94.4	NA	NA
16	41	9/28/94	VPSS-78	< 0.10	9.4	< 1	NA	6.5	6.8	93.5	NA	NA
16	50.5	9/28/94	VPSS-80	NA	NA	NA	NA	10.0	7.2	90.0	NA	NA

TABLE 4-17

RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
16	51	9/28/94	VPSS-79	NA	NA	NA	NA	9.7	7.2	90.3	NA	NA
16	61	9/28/94	VPSS-81	< 0.10	3.2	< 1	NA	8.6	7.5	91.4	NA	NA
16	71	9/28/94	VPSS-82	NA	NA	NA	NA	3.8	7.6	96.2	NA	NA
16	81	9/28/94	VPSS-83	< 0.10	3.0	< 1	NA	8.6	7.4	91.4	NA	NA
16	91	9/28/94	VPSS-84	NA	NA	NA	NA	10.7	7.4	89.3	NA	NA
16	101	9/28/94	VPSS-85	< 0.10	4.6	< 1	NA	6.1	7.5	93.9	NA	NA
17	20.5	9/30/94	VPSS-86	NA	NA	NA	NA	8.1	5.6	91.9	NA	NA
17	26.5	9/30/94	VPSS-87	< 0.10	< 2.0	61	NA	4.0	6.2	96.0	NA	NA
18	10	10/1/94	VPSS-88	< 0.10	34.5	6	NA	9.5	6.9	90.5	NA	NA
18	34.5	10/1/94	VPSS-89	< 0.10	2.3	< 1	NA	3.9	7.2	96.1	NA	NA
18	45	10/1/94	VPSS-90	NA	NA	NA	NA	4.8	7.1	95.2	NA	NA
18	50	10/1/94	VPSS-91	< 0.10	2.1	< 1	NA	4.2	7.5	95.8	NA	NA
18	60	10/1/94	VPSS-92	NA	NA	NA	NA	4.7	7.3	95.3	NA	NA
18	70	10/1/94	VPSS-93	< 0.10	2.9	< 1	NA	5.9	7.0	94.1	NA	NA
19	10.5	10/3/94	VPSS-94	< 0.10	5.7	3	NA	4.9	4.7	95.1	2.4	1.7
19	30.5	10/3/94	VPSS-95	< 0.10	3.8	< 1	NA	13.1	5.0	86.9	4.8	3.2
19A	20.5	10/4/94	VPSS-96	NA	NA	NA	NA	7.0	6.8	93.0	NA	NA
19A	40.5	10/4/94	VPSS-97	NA	NA	NA	NA	4.0	7.3	96.0	NA	NA
19A	51	10/4/94	VPSS-98	< 0.10	2.4	< 1	NA	8.0	7.1	92.0	3.4	2.4
19A	51(DUP)	10/4/94	VPSS-98	NA	NA	NA	NA	NA	NA	NA	4.1	2.2
19A	61	10/4/94	VPSS-99	NA	NA	NA	NA	4.5	7.2	95.5	NA	NA
19A	70.5	10/4/94	VPSS-100	< 0.10	3.2	< 1	NA	26.0	7.3	74.0	6.3	3.4
19A	90.5	10/4/94	VPSS-101	NA	NA	NA	NA	4.7	7.5	95.3	NA	NA
19A	100.5	10/4/94	VPSS-102	NA	NA	NA	NA	4.8	8.0	95.2	NA	NA
20	11	10/13/94	VPSS-114	NA	NA	NA	NA	7.3	7.7	92.7	NA	NA
20	21	10/13/94	VPSS-115	< 0.10	2.8	< 1	NA	8.0	7.9	92.0	NA	NA

TABLE 4-17

RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
20	31	10/13/94	VPSS-116	< 0.10	5.2	25	NA	11.9	7.8	88.1	NA	NA
20A	11	10/22/94	VPSS-125	NA	NA	NA	NA	4.3	7.0	95.7	NA	NA
20A	20.5(DUP)	10/22/94	VPSS-126	< 0.10	< 2.0	< 1	NA	10.8	6.5	89.2	NA	NA
20A	21	10/22/94	VPSS-127	< 0.10	< 2.0	< 1	NA	9.5	6.9	90.5	NA	NA
20A	50.5	10/22/94	VPSS-128	< 0.10	< 2.0	< 1	NA	12.2	6.8	87.8	NA	NA
20A	71	10/22/94	VPSS-129	< 0.10	3.1	< 1	NA	8.2	7.1	91.8	NA	NA
21	9	10/8/94	VPSS-103	NA	NA	NA	NA	17.7	6.7	82.3	NA	NA
21	19(DUP)	10/8/94	VPSS-104	< 0.10	< 2.0	< 1	NA	22.0	6.9	78.0	NA	NA
21	19.5	10/8/94	VPSS-105	< 0.10	< 2.0	< 1	NA	17.0	6.8	83.0	NA	NA
21	29.5	10/8/94	VPSS-106	NA	NA	NA	NA	16.9	6.6	83.1	NA	NA
21	49	10/9/94	VPSS-107	< 0.10	2.6	1	NA	16.2	7.0	83.8	NA	NA
21	59.5	10/9/94	VPSS-108	< 0.10	4.0	< 1	NA	21.3	7.0	78.7	NA	NA
22	11	10/11/94	VPSS-109	NA	NA	NA	NA	5.2	8.2	94.8	NA	NA
22	20.5(DUP)	10/11/94	VPSS-110	< 0.10	2.5	< 1	NA	6.4	6.8	93.6	NA	NA
22	21	10/11/94	VPSS-111	< 0.10	2.5	< 1	NA	5.7	7.6	94.3	NA	NA
22	31	10/11/94	VPSS-112	< 0.10	2.4	< 1	NA	4.8	6.6	95.2	NA	NA
22	50.5	10/11/94	VPSS-113	< 0.10	3.1	< 1	NA	4.0	6.7	96.0	NA	NA
23A	1.5	10/18/94	VPSS-123	< 0.10	2.9	150	NA	6.5	8.2	93.5	NA	NA
23A	26	10/18/94	VPSS-124	< 0.10	2.4	< 1	NA	10.6	7.7	89.4	NA	NA
24	10	10/15/94	VPSS-117	NA	NA	NA	NA	2.5	7.2	97.5	NA	NA
24	20	10/15/94	VPSS-118	< 0.10	4.8	< 1	NA	7.3	NA	92.7	NA	NA
24	29.5	10/15/94	VPSS-119	< 0.10	4.7	< 1	NA	5.7	NA	94.3	NA	NA
24	49.5	10/15/94	VPSS-120	< 0.10	4.2	< 1	NA	5.7	NA	94.3	NA	NA
24	59.5	10/15/94	VPSS-121	NA	NA	NA	NA	3.9	7.5	96.1	NA	NA
24	69.5	10/15/94	VPSS-122	< 0.10	< 2.0	< 1	NA	6.0	7.2	94.0	NA	NA

TABLE 4-17

RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
29	4	4/11/97	VPSS-148	<0.50	4.4	<11	<1.6	6.7	6.5	93.3	NA	NA
29	7	4/11/97	VPSS-149	<0.50	2.5	<10	<1.5	3.0	6.9	97.0	NA	NA
29	10	4/11/97	VPSS-150	<0.50	2.9	<11	<1.6	4.8	6.4	95.2	NA	NA
29	15	4/11/97	VPSS-151	<0.50	1.8	<10	<1.5	1.4	7.1	98.6	NA	NA
29	20	4/11/97	VPSS-152	<0.50	2.1	<11	<1.7	6.1	7.0	93.9	NA	NA
29	20(DUP)	4/11/97	VPSS-153	<0.50	2.4	<11	<1.7	8.8	6.7	91.2	NA	NA
29	30	4/11/97	VPSS-154	<0.50	2.4	<12	<1.8	13.3	6.8	86.7	NA	NA
29	40	4/11/97	VPSS-155	<0.50	1.4	<10	<1.6	2.7	7.0	97.3	NA	NA
29	49	4/12/97	VPSS-156	<0.50	30.8	<11	<1.6	7.7	6.9	92.3	NA	NA
29	60	4/12/97	VPSS-157	<0.50	25.0	<11	<1.6	4.8	9.2	95.2	NA	NA
29	70	4/12/97	VPSS-158	<0.50	3.8	<11	<1.6	5.5	6.5	94.5	NA	NA
29	79.5	4/12/97	VPSS-159	<0.50	1.64	<11	<1.6	10.7	7.0	89.3	NA	NA
30	5	4/1/97	VPSS-130	<0.05	2.5	<11	<1.6	2.2	7.5	97.8	NA	NA
30	10	4/1/97	VPSS-131	0.085	2.5	<10	<1.6	4.3	7.2	95.7	NA	NA
30	15	4/1/97	VPSS-132	<0.05	4.4	<10	<1.6	2.9	7.7	97.1	NA	NA
30	20	4/1/97	VPSS-133	<0.05	9.7	<11	<1.6	3.9	7.6	96.1	NA	NA
30	30	4/1/97	VPSS-134	<0.05	52.9	<10	<1.6	9.7	7.7	90.3	NA	NA
30	40	4/2/97	VPSS-135	0.074	0.62	<10	<1.6	4.3	6.9	95.7	NA	NA
30	50	4/2/97	VPSS-136	0.074	<0.5	<11	<1.6	5.0	7.0	95.0	NA	NA
30	60	4/2/97	VPSS-137	<0.05	<0.5	<10	<1.6	2.7	6.8	97.3	NA	NA
30	69.5	4/2/97	VPSS-138	<0.05	<0.5	<11	<1.6	8.4	7.2	91.6	NA	NA
31	5	4/8/97	VPSS-139	<0.05	0.21	<10	<1.6	4.2	7.5	95.8	NA	NA
31	10	4/8/97	VPSS-140	<0.05	0.11	<10	<1.6	2.1	7.2	97.9	NA	NA
31	15	4/8/97	VPSS-141	<0.05	0.14	<10	<1.6	2.8	7.1	97.2	NA	NA
31	20	4/8/97	VPSS-142	<0.05	<0.5	<10	<1.6	2.9	6.8	97.1	NA	NA
31	30	4/8/97	VPSS-143	<0.05	<0.5	<10	<1.6	1.9	6.9	98.1	NA	NA

TABLE 4-17

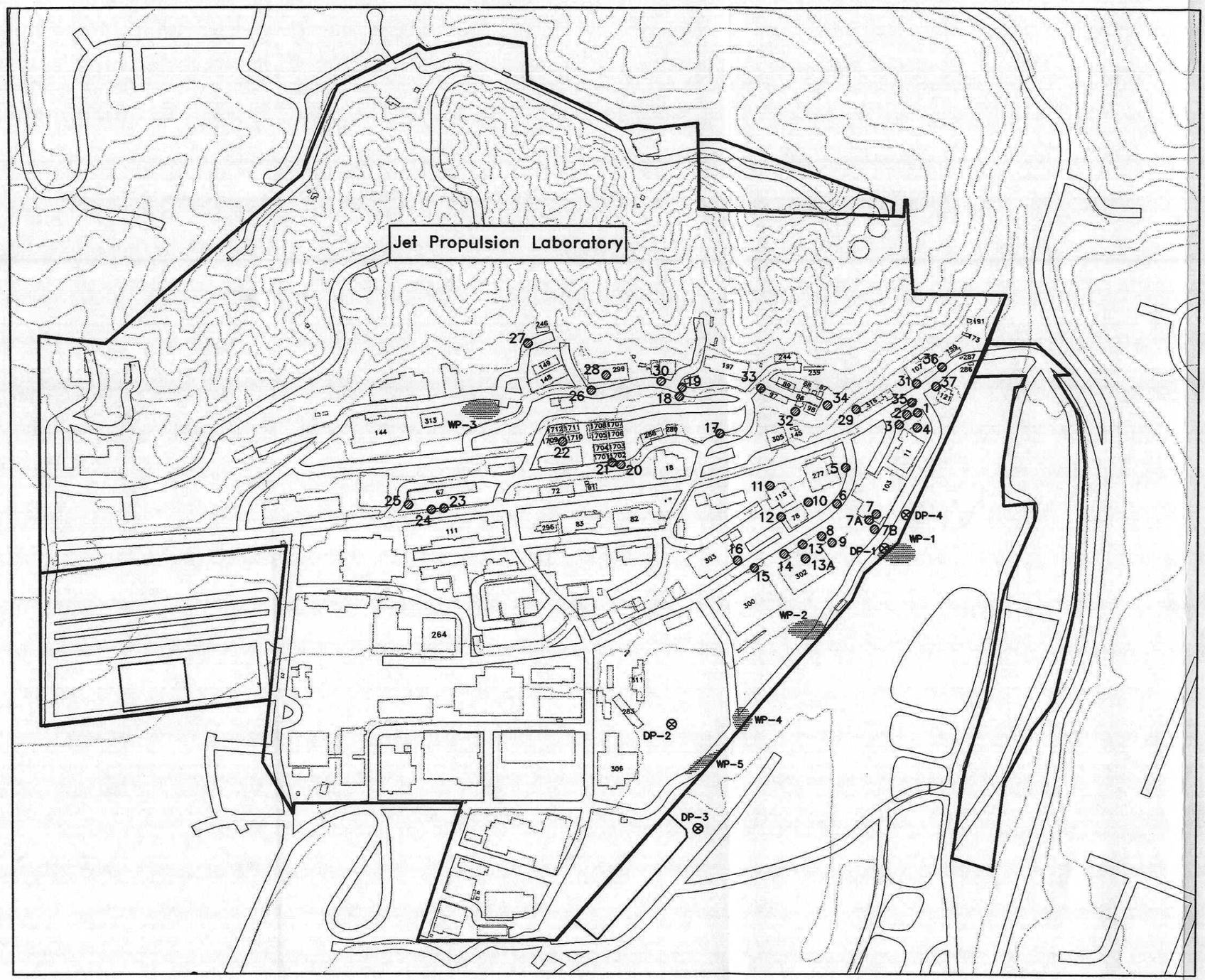
RESULTS OF GENERAL PARAMETERS AND OTHER COMPOUNDS ANALYSES FOR SOIL

Boring/ Test Pit Number	Depth (ft bgs)	Date	Sample Number	Cyanide (mg/kg)	Nitrates (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Tributyltin (µg/kg)	Percent Moisture	pH	Total Solids (%)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
31	40	4/8/97	VPSS-144	<0.05	0.22	<12	<1.6	13.3	7.0	86.7	NA	NA
31	50	4/8/97	VPSS-145	<0.05	0.19	<11	<1.6	10.2	6.9	89.8	NA	NA
31	59.5	4/8/97	VPSS-146	<0.05	0.092	<10	<1.6	2.4	7.1	97.6	NA	NA
31	70	4/9/97	VPSS-147	<1.0	0.23	<11	<1.6	9.0	6.5	91.0	NA	NA
BG-1A	20.5(DUP)	10/1/94	SS-3	NA	NA	NA	NA	4.2	NA	95.8	NA	NA
BG-1A	21	10/1/94	SS-4	NA	NA	NA	NA	3.2	NA	96.8	NA	NA
BG-2A	18	10/1/94	SS-5	NA	NA	NA	NA	4.7	NA	95.3	NA	NA
TP-1	5-5.5	4/14/97	VPSS-160	<0.50	19.1	NA	<1.5	3.2	6.6	96.8	NA	NA
TP-1	2.4	4/14/97	VPSS-161	<0.50	15.9	NA	<1.6	5.3	6.2	94.7	NA	NA
TP-2	1-1.3	4/14/97	VPSS-162	<0.50	18.6	NA	<1.6	10.4	6.5	89.6	NA	NA
TP-2	5-5.5	4/14/97	VPSS-163	<0.50	25.9	NA	<1.6	5.3	7.0	94.7	NA	NA
TP-3	2.2-2.7	4/14/97	VPSS-164	<0.50	28.8	NA	<1.7	10.4	7.1	89.6	NA	NA
TP-3	4.5-5.5	4/14/97	VPSS-165	<0.50	20.2	NA	<1.6	3.3	.6.7	96.7	NA	NA
TP-1A	2-2.5	6/10/99	VPSS-166	<0.53	5.3	NA	<1	5.3	6.3	94.7	NA	NA
TP-1A	4.7-5.5	6/10/99	VPSS-167	<0.53	5.0	NA	<1	5.0	6.6	95.0	NA	NA
TP-2A	1-1.5	6/10/99	VPSS-168	<0.56	10.4	NA	1	10.4	7.8	89.6	NA	NA
TP-2A	5-5.5	6/10/99	VPSS-169	<0.53	6.0	NA	1	6.0	7.5	94.0	NA	NA
TP-3A	1.5-2.5	6/10/99	VPSS-170	<0.52	3.6	NA	<1	3.6	7.8	96.4	NA	NA
TP-3A	5-5.5	6/10/99	VPSS-171	<0.53	6.5	NA	<1	6.5	7.6	93.5	NA	NA

Notes:

BG – Background samples.
bgs – Below ground surface.
DUP – Duplicate samples.
NA – Not analyzed.
NS – Not sampled.
TP – Test pit.

JPLF4-1.DWG



Explanation

⊘ 1	Seepage Pit or Dry Well Location and Number
⊗ DP-1	Surface Water Discharge Points to the Arroyo Seco
WP-1	Suspected Waste Disposal Area
197	Building Numbers Associated with Seepage Pits/Dry Wells

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 4-1

LOCATIONS OF KNOWN SEEPAGE PITS/ DRY WELLS, DISCHARGE POINTS AND SUSPECTED WASTE DISPOSAL AREAS

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SV-1 SV-2 SV-3 SV-4 SV-5 SV-7 SV-8 SV-9 SV-10 SV-11 SV-13 SV-14 SV-15 SV-16 SV-17 SV-19 SV-20 SV-21 SV-22 SV-23 SV-25 SV-26 SV-27 SV-28 SV-29 SV-31 SV-32 SV-33 SV-34 SV-35 SV-37 SV-38 SV-39 SV-40 SV-41 SV-43 SV-44 SV-45 SV-46 SV-47 SV-49 SV-50 SV-51 SV-52 SV-53 SV-54 SV-55 SV-57 SV-58

Explanation

▲ SV-58 Soil Vapor Probe Installed During RI Investigation

300 150 0 300

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

2-9-99

FIGURE 4-2

LOCATIONS OF SOIL VAPOR PROBES SAMPLED DURING THE INITIAL SCREENING, EVENT 1

January, 1994

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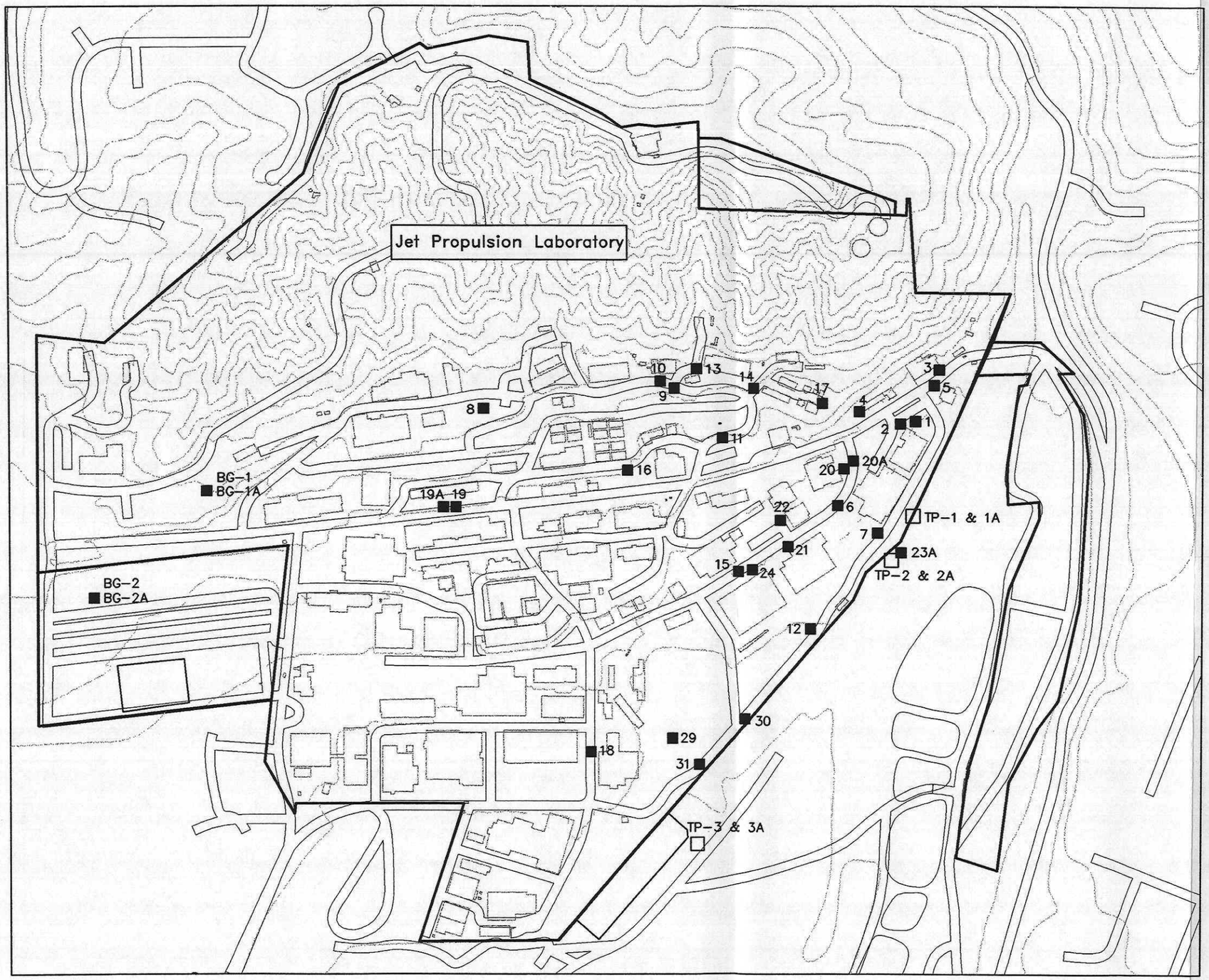

Explanation

■ 31 Soil Boring Drilled During RI Investigation

□ TP-1 Test Pit Completed During RI Investigation

N

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 4-3

LOCATIONS OF SOIL BORINGS AND TEST PITS SAMPLED DURING THE OU-2 RI

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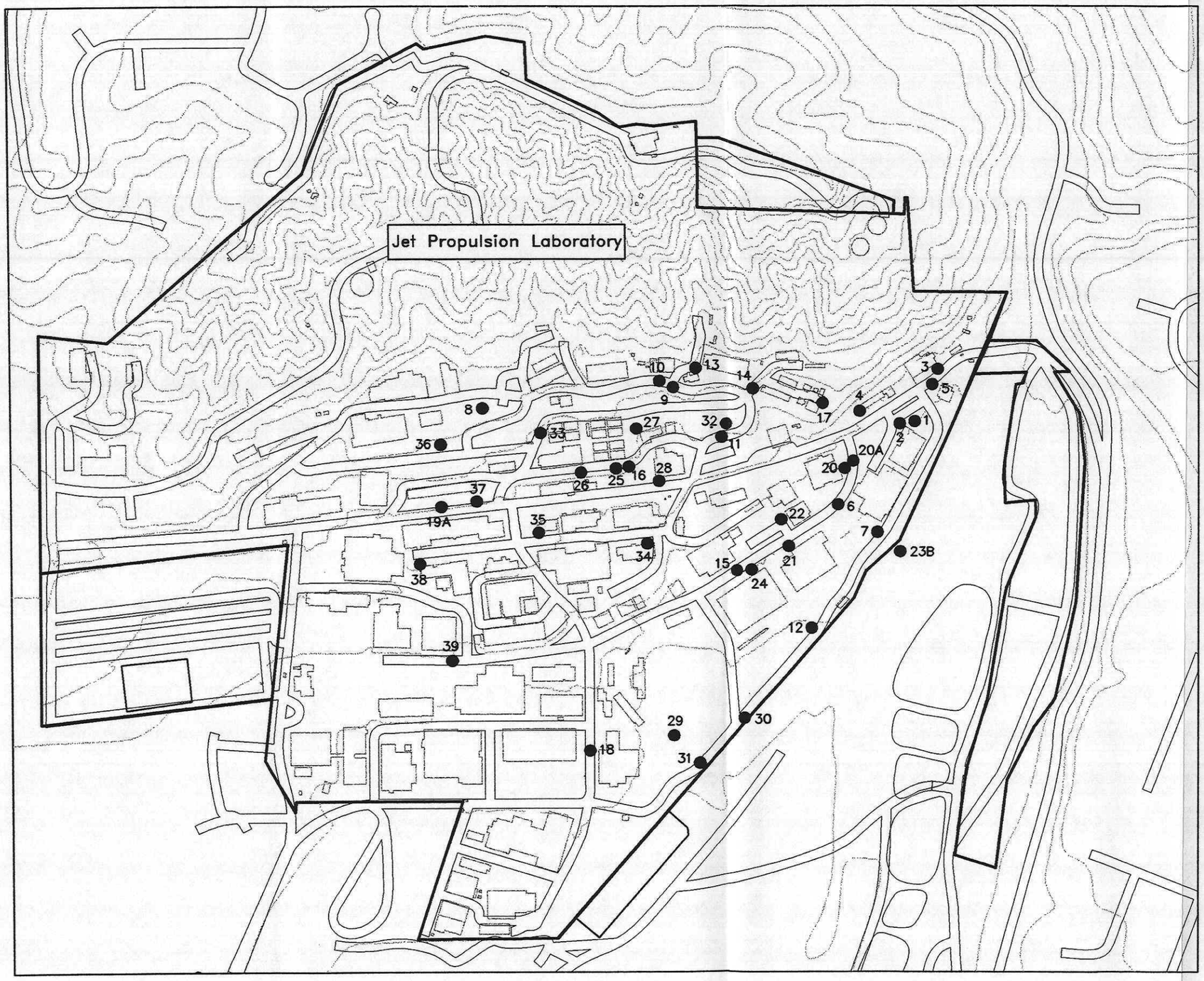

Explanation

● 39 Soil Vapor Well Installed During RI Investigation

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 4-4

LOCATIONS OF SOIL VAPOR WELLS SAMPLED DURING THE OU-2 RI

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SV-1 SV-2 SV-3 SV-4 SV-5 SV-7 SV-8 SV-9 SV-10 SV-11 SV-13 SV-14 SV-15 SV-16 SV-17 SV-19 SV-20 SV-21 SV-22 SV-23 SV-25 SV-26 SV-27 SV-28 SV-29 SV-31 SV-32 SV-33 SV-34 SV-35 SV-37 SV-38 SV-39 SV-40 SV-41 SV-43 SV-44 SV-45 SV-46 SV-47 SV-49 SV-50 SV-51 SV-52 SV-53 SV-54 SV-55 SV-57 SV-58

Explanation

▲ SV-55 Soil Vapor Probe in Which VOCs were Detected

▲ SV-58 Soil Vapor Probe in Which VOCs were not Detected

N

300 150 0 300

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 4-5

SOIL VAPOR PROBES IN WHICH VOLATILE ORGANIC COMPOUNDS WERE DETECTED, EVENT 1

JANUARY, 1994

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Continue

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SV-1 SV-2 SV-3 SV-4 SV-5 SV-7 SV-8 SV-9 SV-10 SV-11 SV-12 SV-13 SV-14 SV-15 SV-16 SV-17 SV-18 SV-19 SV-20 SV-21 SV-22 SV-23 SV-25 SV-26 SV-27 SV-28 SV-29 SV-31 SV-32 SV-33 SV-34 SV-35 SV-37 SV-38 SV-39 SV-40 SV-41 SV-43 SV-44 SV-45 SV-46 SV-47 SV-49 SV-50 SV-51 SV-52 SV-53 SV-54 SV-57 SV-58

Explanation

▲SV-55 Soil Vapor Probes Sampled During Events 1

Countours:

1. Represent minimum known areal distribution based on sampling event.
2. Not queried where some horizontal control exists.

—?— Total Volatile Organic Compounds (VOC) Detected During Event 1

—?— Carbon Tetrachloride (CCl_4) Detected During Event 1

—?— Trichloroethene (TCE) Detected During Event 1

—?— Chloroform Detected During Event 1

Concentrations of Total VOC Exceeding 50 $\mu g/L$—Vapor at an Individual Sample Point

Concentrations of Carbon Tetrachloride (CCl_4) Exceeding 50$\mu g/L$—Vapor at an Individual Sample Point

N

300 150 0 300

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE 4-6

TOTAL VOC AND OTHER CONSTITUENTS OF POTENTIAL CONCERN, EVENT 1

JANUARY, 1994

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