Appendix F

Soil Gas Data

1997 to 1999

Denotes estimated quantities | ND Not Detected | Denotes problem with lab quality, anomalous by one order of magnitude | Quantity obtained after dilution | MDL < Result < RL

Appendix F - Soil Gas Data - 1997 to 1999

Site	Location	Sample Date	Acetone		Freon 12		Freon 11		Freon 113		2-Butanone		Chloroform		TCA		PCE		TCE	
			(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3
OU 8-05-1	MW1-1	10/11/96	ND	0.000	ND	0.000	ND	0.000	ND	0.000	3900	9714	ND	0.000	ND	0.000	ND	0.0	ND	0.000
OU 8-05-1	MW1-1	03/21/97	ND	0.000	ND	0.000	ND	0.000	ND	0.000	3500	10303	ND	0.000	ND	0.000	ND	0.0	ND	0.000
OU 8-05-1	MW1-1	06/25/97	20.0	47.4	ND	0.000	ND	0.000	ND	0.000	2000	5897	ND	0.000	ND	0.000	ND	0.0	ND	0.000
OU 8-05-1	MW1-1	09/26/97	ND	0.000	ND	0.000	ND	0.000	ND	0.000	3300	9714	ND	0.000	ND	0.000	ND	0.0	ND	0.000
OU 8-05-1	MW1-1	12/19/97	ND	0.000	ND	0.000	ND	0.000	ND	0.000	1200	3532	ND	0.000	ND	0.000	6.4	43.3	ND	0.000
OU 8-05-1	MW1-1	03/27/98	14.9	35.3	ND	0.000	ND	0.000	ND	0.000	530	1560	ND	0.000	ND	0.000	14	94.8	ND	0.000
OU 8-05-1	MW1-1	06/30/98	12.0	28.4	ND	0.000	ND	0.000	ND	0.000	840	2473	ND	0.000	ND	0.000	10.3	69.7	ND	0.000
OU 8-05-1	MW1-1	09/24/98	ND	0.000	ND	0.000	ND	0.000	ND	0.000	887	2611	ND	0.000	ND	0.000	14.3	96.8	ND	0.000
OU 8-05-1	MW1-1	12/11/98	15.0	35.6	ND	0.000	ND	0.000	ND	0.000	960	2826	ND	0.000	ND	0.000	3.8	25.7	ND	0.000
OU 8-05-1	MW1-1	03/29/99	16.0	37.9	ND	0.000	ND	0.000	ND	0.000	620	1825	ND	0.000	ND	0.000	13	88.0	ND	0.000
OU 8-05-1	MW1-1	06/29/99	16.0	37.9	ND	0.000	ND	0.000	ND	0.000	990	2914	ND	0.000	ND	0.000	7.5	50.8	ND	0.000
OU 8-05-1	MW1-1	09/28/99	29.0	68.7	ND	0.000	ND	0.000	ND	0.000	1600	4710	ND	0.000	ND	0.000	12	81.2	ND	0.000
OU 8-05-1	MW1-1	12/16/99	ND	0.000	ND	0.000	ND	0.000	ND	0.000	2300	6770	ND	0.000	ND	0.000	20	135.4	ND	0.000
Sample Mean											1694.4	4987.7					7.8	52.7		
Standard Dev.											1082.3	3186.0					6.7	45.5		
Maximum											3500.0	10302.9					20.0	135.4		
Minimum											530.0	1560.1					3.8	25.7		
Confidence											588.3	1731.9					3.7	24.7		
OU 8-05-1	MW1-2	10/11/96	ND	0.000							4050	11775								
OU 8-05-1	MW1-2	03/21/97	ND	0.000							2700	7948								
OU 8-05-1	MW1-2	06/25/97	27.0	64.007							4100	12069								
OU 8-05-1	MW1-2	09/26/97	ND	0.000							8100	23844								
OU 8-05-1	MW1-3	10/11/96	ND	0.000	ND	0.000	8.5	47.662	1	7.648	ND		4	19.492	ND	0.00	580	3926.2	29	155.53
OU 8-05-1	MW1-3	03/21/97	ND	0.000	ND	0.000	5.2	29.158	ND	0.000	ND		1.96	9.551	2.2	11.98	410	2775.4	19	101.90
OU 8-05-1	MW1-3	06/25/97	ND	0.000	ND	0.000	4.9	27.476	1	7.648	ND		2.8	13.645	3.5	19.06	440	2978.5	22	117.99
OU 8-05-1	MW1-3	09/26/97	15.0	35.559	ND	0.000	4.0	22.429	0.5	3.824	ND		2.3	11.208	2.5	13.61	340	2301.6	20	107.27
OU 8-05-1	MW1-3	12/19/97	ND	0.000	ND	0.000	2.9	16.261	0.5	3.824	ND		1.8	8.772	1.6	8.71	350	2369.3	21	112.63
OU 8-05-1	MW1-3	03/27/98	3.6	8.534	ND	0.000	4.7	26.355	ND	0.000	ND		2	9.746	2.8	15.25	400	2707.8	18	96.54
OU 8-05-1	MW1-3	06/30/98	ND	0.000	ND	0.000	4.9	27.476	1	7.648	ND		2.4	11.695	3.1	16.88	414	2802.5	19.6	105.12
OU 8-05-1	MW1-3	09/24/98	ND	0.000	ND	0.000	6.5	36.448	1.3	9.943	ND		1.9	9.259	3.9	21.24	562	3804.4	26.7	143.20
OU 8-05-1	MW1-3	12/11/98	ND	0.000	0.7	3.455	5.5	30.840	0.9	6.883	ND		3.5	17.056	2.9	15.79	616	4169.9	23.6	126.57
OU 8-05-1	MW1-3	03/29/99	3.7	8.771	0.6	2.961	4.8	26.915	0.9	6.883	ND		3.2	15.594	3.4	18.52	370	2504.7	21	112.63
OU 8-05-1	MW1-3	06/29/99	2.5	5.927	0.65	3.208	3.5	19.626	0.7	5.354	ND		2.1	10.233	2.3	12.53	333	2254.2	14	75.09
OU 8-05-1	MW1-3	09/28/99	ND	0.000	0.61	3.010	3.5	19.626	0.75	5.736	ND		3.8	18.518	2.6	14.16	570	3858.6	24	128.72
OU 8-05-1	MW1-3	12/16/99	ND	0.000	ND	0.000	5.5	30.840	1	7.648	ND		3.9	19.005	3.5	19.06	570	3858.6	26	139.44
Sample Mean							5.0	27.8					2.7	13.4	2.6	14.4	458.1	3100.9	21.8	117.1
Standard Dev.							1.4	8.1					0.8	4.1	1.0	5.5	105.1	711.7	4.0	21.6
Maximum							8.5	47.7					4.0	19.5	3.9	21.2	616.0	4169.9	29.0	155.5
Minimum							2.9	16.3					1.8	8.8	0.0	0.0	333.0	2254.2	14.0	75.1
Confidence							0.8	4.4					0.5	2.2	0.6	3.0	57.2	386.9	2.2	11.7
OU 8-05-1	MW1-3 dup	10/11/96	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000		
OU 8-05-1	MW1-3 dup	03/21/97	ND	0.000	ND	0.000	5.4	30.280	ND	0.000	ND	0.000	ND	0.000	4.3	23.4	450.000	3046.2	19.000	101.9
OU 8-05-1	MW1-3 dup	06/25/97	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000		
OU 8-05-1	MW1-3 dup	09/26/97	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000
OU 8-05-1	MW1-3 dup	12/19/97	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000	ND	0.000
OU 8-05-1	MW1-3 dup	03/27/98	0.8	1.802	ND	0.000	6.3	35.326	0.89	6.807	ND	0.000	3.0	14.522	4.4	24.0	365.000	2470.8	17.600	94.4
OU 8-05-1	MW1-3 dup	06/30/98	ND	0.000	0.74	3.652	4.7	26.355	0.92	7.036	ND	0.000	2.3	11.208	3.0	16.3	447.000	3025.9	19.800	106.2
OU 8-05-1	MW1-3 dup	09/24/98	ND	0.000	ND	0.000	6.7	37.569	1.01	7.725	ND	0.000	3.7	17.884	3.8	20.7	553.600	3747.5	26.400	141.6
OU 8-05-1	MW1-3 dup	12/11/98	ND	0.000	0.67	3.307	5.2	29.326	1.01	7.725	ND	0.000	3.1	15.106	3.0	16.2	628.000	4251.2	24.500	131.4
OU 8-05-1	MW1-3 dup	03/29/99	ND	0.000	ND	0.000	5.0	28.037	0.96	7.342	ND	0.000	3.2	15.594	3.4	18.5	390.000	2640.1	21.000	112.6
OU 8-05-1	MW1-3 dup	06/29/99	ND	0.000	ND	0.000	4.3	24.112	0.92	7.036	ND	0.000	2.3	11.208	2.6	14.2	397.000	2687.4	17.000	91.2
OU 8-05-1	MW1-3 dup	09/28/99	ND	0.000	ND	0.000	3.5	19.626	ND	0.000	ND	0.000	3.8	18.323	2.4	13.1	560.000	3790.9	22.000	118.0
OU 8-05-1	MW1-3 dup	12/16/99	ND	0.000	ND	0.000	4.8	26.915	ND	0.000	ND	0.000	3.6	17.543	3.5	19.1	550.000	3723.2	23.000	123.4
OU 8-05-1	MW1-4	10/11/96	ND		5.3	26.16	1.7	9.53	2.2	16.83	49	144	0.8	3.898	ND	0.00	120	812.3	2.9	15.55
OU 8-05-1	MW1-4	03/21/97	ND		6.8	33.56	2	11.21	1.9	14.53	49	144	0.9	4.386	ND	0.00	110	744.6	2.7	14.48
OU 8-05-1	MW1-4	06/25/97	ND		4.8	23.69	1.3	7.29	1.3	9.94	ND	0	0.7	3.411	ND	0.00	81	548.3	2.2	11.80
OU 8-05-1	MW1-4	09/26/97	ND		8.5	41.95	3.8	21.31	3.9	29.83	22	65	1.8	8.772	1.1	5.99	160	1083.1	4.6	24.67
OU 8-05-1	MW1-4	12/19/97	3.0	7.1	5.4	26.65	1.7	9.53	1.6	12.24	92	271	0.7	3.411	ND	0.00	72	487.4	2.1	11.26
OU 8-05-1	MW1-4	03/27/98	1.1	2.6	7.7	38.00	ND	0.00	ND	0.00	0.8	2	0.6	2.924	ND	0.00	103	697.2	1.9	10.19
OU 8-05-1	MW1-4	06/30/98	ND		ND	0.00	2.6	14.58	2.7	20.65	1.94	6	1.1	5.360	ND	0.00	165	1116.9	3.4	18.24
OU 8-05-1	MW1-4	09/24/98	ND		9.1	44.91	3.3	18.50	3.5	26.77	0	0	1.4	6.822	0.6	3.27	217.5	1472.3	4.3	23.06
OU 8-05-1	MW1-4	12/11/98	0.9	2.1	8.4	41.45	3.5	19.63	3.6	27.53	0	0	1.5	7.310	0.6	3.27	247	1672.0	3.9	20.92
OU 8-05-1	MW1-4	03/29/99	4.2	10.0	6	29.61	2.8	15.70	2.7	20.65	0	0	1.7	8.284	1.6	8.71	180	1218.5	5.1	27.35
OU 8-05-1	MW1-4	06/29/99	4.6	10.9	6.9	34.05	2.8	15.70	3.1	23.71	0	0	1.3	6.335	0.8	4.36	230	1557.0	3.1	16.63

Denotes estimated quantitities | ND Not Detected | Denotes problem with lab quality, anomalous by one order of magnitude | Quantity obtained after dilution | MDL < Result < RL

Appendix F - Soil Gas Data - 1997 to 1999

Site	Location	Sample Date	Acetone (ppbv)	Acetone ug/m3	Freon 12 (ppbv)	Freon 12 ug/m3	Freon 11 (ppbv)	Freon 11 ug/m3	Freon 113 (ppbv)	Freon 113 ug/m3	2-Butanone (ppbv)	2-Butanone ug/m3	Chloroform (ppbv)	Chloroform ug/m3	TCA (ppbv)	TCA ug/m3	PCE (ppbv)	PCE ug/m3	TCE (ppbv)	TCE ug/m3
OU 8-05-1	MW1-4	09/28/99	ND		5.6	27.64	3.6	20.19	3.9	29.83	0	0	1.7	8.284	0.98	5.34	200	1353.9	5	26.82
OU 8-05-1	MW1-4	12/16/99	2.4	5.7	2.5	12.34	1.6	8.97	1.6	12.24	0	0	4.7	22.903	ND	0.00	140	947.7	2.5	13.41
Sample Mean					5.9	29.2	2.4	13.2	2.5	18.8			1.5	7.1			155.8	1054.7	3.4	18.0
Standard Dev.					2.5	12.5	1.1	6.2	1.2	8.9			1.1	5.2			57.2	387.4	1.1	6.0
Maximum					9.1	44.9	3.8	21.3	3.9	29.8			4.7	22.9			247.0	1672.0	5.1	27.4
Minimum					0.0	0.0	0.0	0.0	0.0	0.0			0.6	2.9			72.0	487.4	1.9	10.2
Confidence					1.4	6.8	0.6	3.4	0.6	4.8			0.6	2.8			31.1	210.6	0.6	3.3
OU 8-05-1	MW1-4 dup	06/25/1997			5.1	25.17	1.4	7.85	1.72	13.15							97	656.6	2.6	13.94
OU 8-05-1	MW1-4 dup	09/26/1997			8	39.48	3.5	19.63	3.8	29.06	15	44					170	1150.8	4.7	25.21
OU 8-05-1	MW1-4 dup	12/19/1997	14.0	33.2	9.2	45.40	2.8	15.70	3.1	23.71	60	177					160	1083.1	3.6	19.31
OU 8-06-53	MW53-1	10/11/96	ND	0.000	ND	0.00	1.2	6.73	ND	0.00	12	35	ND	0.00	ND	0.00	5.2	35.2	ND	0.00
OU 8-06-53	MW53-1	03/21/97	ND	0.000	ND	0.00	ND	0.00	ND	0.00	13	38	ND	0.00	ND	0.00	0.5	3.4	ND	0.00
OU 8-06-53	MW53-1	06/25/97	ND	0.000	ND	0.00	0.8	4.49	ND	0.00	ND	0	ND	0.00	ND	0.00	2.8	19.0	ND	0.00
OU 8-06-53	MW53-1	09/26/97	ND	0.000	ND	0.00	1.4	7.85	ND	0.00	ND	0	ND	0.00	ND	0.00	2.6	17.6	ND	0.00
OU 8-06-53	MW53-1	12/19/97	ND	0.000	ND	0.00	0.7	3.93	ND	0.00	ND	0	ND	0.00	ND	0.00	1.9	12.9	ND	0.00
OU 8-06-53	MW53-1	03/27/98	ND	0.000	ND	0.00	0.6	3.36	ND	0.00	ND	0	ND	0.00	ND	0.00	1.6	10.8	ND	0.00
OU 8-06-53	MW53-1	06/30/98	ND	0.000	0.55	2.71	0.7	3.93	ND	0.00	ND	0	ND	0.00	ND	0.00	1.3	8.8	ND	0.00
OU 8-06-53	MW53-1	09/24/98	7.6	18.0	0.6	2.96	0.9	5.05	ND	0.00	2.38		ND	0.00	ND	0.00	2.1	14.2	ND	0.00
OU 8-06-53	MW53-1	12/11/98	ND	0.000	0.5	2.47	0.7	3.93	ND	0.00	ND	0	ND	0.00	ND	0.00	1.98	13.4	ND	0.00
OU 8-06-53	MW53-1	03/29/99	27.6	65.4	ND	0.00	0.5	2.80	ND	0.00	13.4		ND	0.00	2.6	14.16	1.7	11.5	3.5	18.77
OU 8-06-53	MW53-1	06/29/99	1.5	3.6	0.68	3.36	0.8	4.49	ND	0.00	ND	0	ND	0.00	ND	0.00	1.5	10.2	ND	0.00
OU 8-06-53	MW53-1	09/28/99	2.3	5.5	0.5	2.47	0.9	5.05	ND	0.00	ND	0	ND	0.00	ND	0.00	1.7	11.5	ND	0.00
OU 8-06-53	MW53-1	12/16/99	2.3	5.5	0.6	2.96	0.82	4.60	ND	0.00	ND	0	ND	0.00	ND	0.00	2.4	16.2	ND	0.00
Sample Mean							0.8	4.3									2.1	14.2		
Standard Dev							0.3	1.9									1.1	7.5		
Maximum							1.4	7.9									5.2	35.2		
Minimum							0.0	0.0									0.5	3.4		
Confidence							0.2	1.0									0.6	4.1		
OU 8-06-53	MW53-2	10/11/96	ND	0.000	ND	0.00	6.7	37.57	ND	0.00	ND	0	ND	0.00	ND	0.00	24	162.5	ND	0.00
OU 8-06-53	MW53-2	03/21/97	ND	0.000	ND	0.00	2.3	12.90	ND	0.00	22	65	ND	0.00	ND	0.00	15	101.5	ND	0.00
OU 8-06-53	MW53-2	06/25/97	ND	0.000	ND	0.00	1.5	8.41	ND	0.00	ND	0	ND	0.00	ND	0.00	9.8	66.3	ND	0.00
OU 8-06-53	MW53-2	09/26/97	ND	0.000	ND	0.00	3.5	19.63	ND	0.00	ND	0	ND	0.00	2.1	11.44	24	162.5	ND	0.00
OU 8-06-53	MW53-2	12/19/97	ND	0.000	ND	0.00	0.9	5.05	ND	0.00	30	88	ND	0.00	ND	0.00	8.5	57.5	ND	0.00
OU 8-06-53	MW53-2	03/27/98	ND	0.000	ND	0.00	2.1	11.78	ND	0.00	ND	0	ND	0.00	0.95	5.17	19	128.6	ND	0.00
OU 8-06-53	MW53-2	06/30/98	ND	0.000	0.59	2.91	1.7	9.53	ND	0.00	ND	0	ND	0.00	1	5.45	16	108.3	ND	0.00
OU 8-06-53	MW53-2	09/24/98	ND	0.000	ND	0.00	3.2	17.94	ND	0.00	ND	0	ND	0.00	0.7	3.81	21.7	146.9	ND	0.00
OU 8-06-53	MW53-2	12/11/98	1.3	3.1	0.6	2.96	1.96	10.99	ND	0.00	ND	0	ND	0.00	1	5.45	19.9	134.7	ND	0.00
OU 8-06-53	MW53-2	03/29/99	8.8	20.9	0.8	3.95	1.97	11.05	ND	0.00	ND	0	ND	0.00	1.2	6.53	18.7	126.6	ND	0.00
OU 8-06-53	MW53-2	06/29/99	2.9	6.9	0.7	3.45	2	11.21	ND	0.00	ND	0	ND	0.00	1	5.45	15	101.5	ND	0.00
OU 8-06-53	MW53-2	09/28/99	3.1	7.3	0.6	2.96	2.4	13.46	ND	0.00	ND	0	ND	0.00	1.3	7.08	17	115.1	ND	0.00
OU 8-06-53	MW53-2	12/16/99	2.1	5.0	ND	0.00	2.6	14.58	ND	0.00	ND	0	ND	0.00	1.3	7.08	25	169.2	ND	0.00
Sample Mean							2.5	14.2									18.0	121.6		
Standard Dev.							1.4	8.0									5.2	35.0		
Maximum							6.7	37.6									25.0	169.2		
Minimum							0.9	5.0									8.5	57.5		
Confidence							0.8	4.3									2.8	19.0		
OU 8-06-53	MW53-3	10/11/96	ND	0.000	ND	0.000	0.6	3.36	ND	0.00	ND	0	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	03/21/97	ND	0.000	ND	0.000	0.5	2.80	ND	0.00	12	35	ND	0.00	ND	0.00	0.8	5.4	ND	0.00
OU 8-06-53	MW53-3	06/25/97	ND	0.000	ND	0.000	0.5	2.80	ND	0.00	ND	0.00	ND	0.00	ND	0.00	0.9	6.1	ND	0.00
OU 8-06-53	MW53-3	09/26/97	ND	0.000	ND	0.000	0.8	4.49	ND	0.00	ND	0.00	ND	0.00	ND	0.00	0.8	5.4	ND	0.00
OU 8-06-53	MW53-3	12/19/97	ND	0.000	ND	0.000	0.7	3.93	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	03/27/98	ND	0.000	ND	0.000	0.5	2.80	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	06/30/98	1.6	3.8	0.55	2.71	0.5	2.80	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	09/24/98	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	12/11/98	0.4	0.9	ND	0.00	0.6	3.36	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	03/29/99	6.9	16.4	0.57	2.81	0.65	3.64	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	06/29/99	2.2	5.2	0.52	2.57	0.57	3.20	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	09/28/99	2.6	6.2	ND	0.00	0.7	3.93	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-06-53	MW53-3	12/16/99	2.4	5.7	ND	0.00	0.8	4.49	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
Sample Mean																				
Standard Dev.																				
Maximum																				
Minimum																				

Denotes estimated quantities | ND Not Detected | Denotes problem with lab quality, anomalous by one order of magnitude | Quantity obtained after dilution | MDL < Result < RL

Appendix F - Soil Gas Data - 1997 to 1999

Site	Location	Sample Date	Acetone (ppbv)	Acetone ug/m3	Freon 12 (ppbv)	Freon 12 ug/m3	Freon 11 (ppbv)	Freon 11 ug/m3	Freon 113 (ppbv)	Freon 113 ug/m3	2-Butanone (ppbv)	2-Butanone ug/m3	Chloroform (ppbv)	Chloroform ug/m3	TCA (ppbv)	TCA ug/m3	PCE (ppbv)	PCE ug/m3	TCE (ppbv)	TCE ug/m3
Confidence																				
OU 8-06-53	MW53-4	10/11/96	ND	0.000	ND	0.000	2.1	11.78	ND	0.00	ND	0.00	ND	0.00	ND	0.00	3.6	24.4	ND	0.00
OU 8-06-53	MW53-4	03/21/97	ND	0.000	ND	0.000	1.2	6.73	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.4	9.5	ND	0.00
OU 8-06-53	MW53-4	06/25/97	ND	0.000	ND	0.000	1.2	6.73	ND	0.00	ND	0.00	ND	0.00	ND	0.00	2.1	14.2	ND	0.00
OU 8-06-53	MW53-4	09/26/97	ND	0.000	ND	0.000	2.2	12.34	ND	0.00	ND	0.00	ND	0.00	ND	0.00	3.6	24.4	ND	0.00
OU 8-06-53	MW53-4	12/19/97	ND	0.000	ND	0.000	0.9	5.05	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.7	11.5	ND	0.00
OU 8-06-53	MW53-4	03/27/98	ND	0.000	ND	0.000	1.3	7.29	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.5	10.2	ND	0.00
OU 8-06-53	MW53-4	06/30/98	1.0	0.0	0.6	2.96	1.1	6.17	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.5	10.2	ND	0.00
OU 8-06-53	MW53-4	09/24/98	2.4	5.7	ND	0.00	11.9	66.73	ND	0.00	ND	0.00	1.94	9.454	4.6	25.05	18.3	123.9	ND	0.00
OU 8-06-53	MW53-4	12/11/98	1.2	2.8	0.6	2.96	1.2	6.73	ND	0.00	ND	0.00	ND	0.000	ND	0.00	2.3	15.6	ND	0.00
OU 8-06-53	MW53-4	03/29/99	7.7	18.3	0.5	2.47	1.5	8.41	ND	0.00	ND	0.00	ND	0.000	0.59	3.21	2.1	14.2	ND	0.00
OU 8-06-53	MW53-4	06/29/99	2.0	4.7	0.6	2.96	1.3	7.29	ND	0.00	ND	0.00	ND	0.000	ND	0.00	1.65	11.2	ND	0.00
OU 8-06-53	MW53-4	09/28/99	2.1	5.0	ND	0.00	1.3	7.29	ND	0.00	ND	0.00	ND	0.000	0.5	2.72	1.8	12.2	ND	0.00
OU 8-06-53	MW53-4	12/16/99	ND	0.000	ND	0.00	1.7	9.53	ND	0.00	ND	0.00	ND	0.000	ND	0.00	5.1	34.5	ND	0.00
Sample Mean							2.2	12.5									3.6	24.3		
Standard Dev.							2.9	16.4									4.6	30.8		
Maximum							11.9	66.7									18.3	123.9		
Minimum							0.9	5.0									1.4	9.5		
Confidence							1.6	8.9									2.5	16.8		
OU 8-06-53	MW53-5	10/11/96	ND	0.000	ND	0.000	0.9	5.05	ND	0.00	ND	0.00	ND	0.00	ND	0.00	6	40.6	ND	0.00
OU 8-06-53	MW53-5	03/21/97	ND	0.000	ND	0.000	0.6	3.36	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.2	8.1	ND	0.00
OU 8-06-53	MW53-5	06/25/97	ND	0.000	ND	0.000	0.6	3.36	ND	0.00	ND	0.00	ND	0.00	ND	0.00	3.4	23.0	ND	0.00
OU 8-06-53	MW53-5	09/26/97	ND	0.000	ND	0.000	1.1	6.17	ND	0.00	ND	0.00	ND	0.00	ND	0.00	5.9	39.9	ND	0.00
OU 8-06-53	MW53-5	12/19/97	ND	0.000	ND	0.000	0.5	2.80	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.9	12.9	ND	0.00
OU 8-06-53	MW53-5	03/27/98	ND	0.000	ND	0.000	0.6	3.36	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.3	8.8	ND	0.00
OU 8-06-53	MW53-5	06/30/98	10.2	24.2	0.5	2.47	0.5	2.80	ND	0.00	ND	0.00	ND	0.00	ND	0.00	2.1	14.2	ND	0.00
OU 8-06-53	MW53-5	09/24/98	6.3	14.9	0.56	2.76	0.8	4.49	ND	0.00	ND	0.00	0.85	4.142	ND	0.00	3.4	23.0	ND	0.00
OU 8-06-53	MW53-5	12/11/98	1.6	3.8	0.6	2.96	0.6	3.36	ND	0.00	ND	0.00	ND	0.000	ND	0.00	2.2	14.9	ND	0.00
OU 8-06-53	MW53-5	03/29/99	6.9	16.4	0.8	3.95	0.96	5.38	ND	0.00	ND	0.00	ND	0.000	ND	0.00	2.17	14.7	ND	0.00
OU 8-06-53	MW53-5	06/29/99	1.5	3.6	0.5	2.47	0.6	3.36	ND	0.00	ND	0.00	1.2	5.848	ND	0.00	2.1	14.2	ND	0.00
OU 8-06-53	MW53-5	09/28/99	ND	0.000	ND	0.00	0.6	3.36	ND	0.00	ND	0.00	ND	0.000	ND	0.00	3.2	21.7	ND	0.00
OU 8-06-53	MW53-5	12/16/99	ND	0.000	0.8	3.95	0.8	4.49	ND	0.00	ND	0.00	ND	0.000	ND	0.00	3	20.3	ND	0.00
Sample Mean																	2.9	19.7		
Standard Dev.																	1.5	10.3		
Maximum																	6.0	40.6		
Minimum																	1.2	8.1		
Confidence																	0.8	5.6		
OU 8-06-53	MW53-6	10/11/96	ND	0.000	ND	0.00	1.2	6.73	ND	0.00	ND	0.00	ND	0.00	ND	0.00	9.9	67.0	ND	0.00
OU 8-06-53	MW53-6	03/21/97	ND	0.000	ND	0.00	1.5	8.41	ND	0.00	ND	0.00	ND	0.00	ND	0.00	4.2	28.4	ND	0.00
OU 8-06-53	MW53-6	06/25/97	ND	0.000	ND	0.00	0.8	4.49	ND	0.00	ND	0.00	ND	0.00	ND	0.00	8.1	54.8	ND	0.00
OU 8-06-53	MW53-6	09/26/97	ND	0.000	ND	0.00	1.3	7.29	ND	0.00	ND	0.00	ND	0.00	ND	0.00	11	74.5	ND	0.00
OU 8-06-53	MW53-6	12/19/97	ND	0.000	ND	0.00	0.7	3.93	ND	0.00	ND	0.00	ND	0.00	ND	0.00	4.8	32.5	ND	0.00
OU 8-06-53	MW53-6	03/27/98	ND	0.000	ND	0.00	1.7	9.53	ND	0.00	ND	0.00	ND	0.00	ND	0.00	4.8	32.5	ND	0.00
OU 8-06-53	MW53-6	06/30/98	2.5	5.8	0.6	2.96	0.9	5.05	ND	0.00	ND	0.00	ND	0.00	ND	0.00	5.2	35.2	ND	0.00
OU 8-06-53	MW53-6	09/24/98	0.9	2.1	ND	0.00	1.2	6.73	ND	0.00	ND	0.00	ND	0.00	ND	0.00	9.3	63.0	ND	0.00
OU 8-06-53	MW53-6	12/11/98	0.7	1.7	0.6	2.96	0.6	3.36	ND	0.00	ND	0.00	ND	0.00	ND	0.00	5.7	38.6	ND	0.00
OU 8-06-53	MW53-6	03/29/99	5.3	12.6	0.6	2.96	1.5	8.41	ND	0.00	ND	0.00	ND	0.00	ND	0.00	4.6	31.1	ND	0.00
OU 8-06-53	MW53-6	06/29/99	2.6	6.2	0.5	2.47	0.8	4.49	ND	0.00	ND	0.00	ND	0.00	ND	0.00	4.6	31.1	ND	0.00
OU 8-06-53	MW53-6	09/28/99	3.0	7.1	ND	0.00	0.7	3.93	ND	0.00	ND	0.00	ND	0.00	ND	0.00	6.3	42.6	ND	0.00
OU 8-06-53	MW53-6	12/16/99	ND	0.000	0.6	2.96	1	5.61	ND	0.00	ND	0.00	ND	0.00	ND	0.00	6.7	45.4	ND	0.00
Sample Mean							1.1	6.0									6.6	44.4		
Standard Dev.							0.4	2.0									2.3	15.5		
Maximum							1.7	9.5									11.0	74.5		
Minimum							0.6	3.4									4.2	28.4		
Confidence							0.2	1.1									1.2	8.4		
OU 8-05-51	MW51-1	10/11/96	ND	0.000	ND	0.00	15	84.11	ND	0.00	10	29	2.7	13.157	6.3	34.31	22	148.9	ND	0.00
OU 8-05-51	MW51-1	03/21/97	ND	0.000	ND	0.00	10	56.07	ND	0.00	ND	0	1.2	5.848	3.7	20.15	10	67.7	ND	0.00
OU 8-05-51	MW51-1	06/25/97	ND	0.000	ND	0.00	9	50.47	ND	0.00	ND	0	1.5	7.310	4.8	26.14	19	128.6	ND	0.00
OU 8-05-51	MW51-1	09/26/97	ND	0.000	ND	0.00	14	78.50	ND	0.00	ND	0	2.7	13.157	7.8	42.48	29	196.3	ND	0.00
OU 8-05-51	MW51-1	12/19/97	ND	0.000	ND	0.00	9.5	53.27	ND	0.00	ND	0	1.6	7.797	4	21.78	13	88.0	ND	0.00
OU 8-05-51	MW51-1	03/27/98	ND	0.000	ND	0.00	11.5	64.48	ND	0.00	ND	0	1	4.873	3.5	19.06	11	74.5	ND	0.00
OU 8-05-51	MW51-1	06/30/98	ND	0.000	0.6	2.96	8.3	46.54	ND	0.00	1.26	4	1.3	6.335	4	21.78	13	88.0	ND	0.00
OU 8-05-51	MW51-1	09/24/98	1.2	2.8	ND	0.00	13.2	74.02	ND	0.00	1.26	4	2.3	11.208	5.5	29.95	24.8	167.9	1	5.36
OU 8-05-51	MW51-1	12/11/98	6.8	16.1	0.5	2.47	5.8	32.52	ND	0.00	ND	0	1.5	7.310	3.1	16.88	15.5	104.9	ND	0.00

Denotes estimated quantiities | ND Not Detected | Denotes problem with lab quality, anomalous by one order of magnitude | Quantity obtained after dilution | MDL < Result < RL

Appendix F - Soil Gas Data - 1997 to 1999

Site	Location	Sample Date	Acetone (ppbv)	Acetone ug/m3	Freon 12 (ppbv)	Freon 12 ug/m3	Freon 11 (ppbv)	Freon 11 ug/m3	Freon 113 (ppbv)	Freon 113 ug/m3	2-Butanone (ppbv)	2-Butanone ug/m3	Chloroform (ppbv)	Chloroform ug/m3	TCA (ppbv)	TCA ug/m3	PCE (ppbv)	PCE ug/m3	TCE (ppbv)	TCE ug/m3
OU 8-05-51	MW51-1	03/29/99	4.3	10.2	0.6	2.96	10	56.07	ND	0.00	ND	0	1.4	6.822	3.98	21.67	13	88.0	ND	0.00
OU 8-05-51	MW51-1	06/29/99	2.3	5.5	0.6	2.96	9	50.47	ND	0.00	ND	0	1.3	6.335	4.1	22.33	14	94.8	0.5	2.68
OU 8-05-51	MW51-1	09/28/99	4.0	9.5	0.5	2.47	8.7	48.78	ND	0.00	ND	0	1.9	9.259	4.7	25.59	19	128.6	0.8	4.29
OU 8-05-51	MW51-1	12/16/99	4.0	9.5	ND	0.00	9.3	52.15	ND	0.00	ND	0	1.9	9.259	4.3	23.42	19	128.6	0.8	4.29
Sample Mean							10.3	57.5					1.7	8.4	4.6	25.0	17.1	115.8		
Standard Dev.							2.5	14.3					0.6	2.7	1.3	7.0	5.7	38.4		
Maximum							15.0	84.1					2.7	13.2	7.8	42.5	29.0	196.3		
Minimum							5.8	32.5					1.0	4.9	3.1	16.9	10.0	67.7		
Confidence							1.4	7.8					0.3	1.5	0.7	3.8	3.1	20.9		
OU 8-05-51	MW51-2	10/11/96	ND	0.000	ND	0.00	16	89.72	ND	0.00	32	94	2.3	11.208	6.6	35.94	23	155.7	ND	0.00
OU 8-05-51	MW51-2	03/21/97	ND	0.000	ND	0.00	12	67.29	ND	0.00	ND	0	2	9.746	5	27.23	15	101.5	ND	0.00
OU 8-05-51	MW51-2	06/25/97	ND	0.000	ND	0.00	9	50.47	ND	0.00	ND	0	1.97	9.600	5	27.23	19	128.6	ND	0.00
OU 8-05-51	MW51-2	09/26/97	ND	0.000	ND	0.00	15	84.11	ND	0.00	13	38	2.9	14.132	8.4	45.74	23	155.7	ND	0.00
OU 8-05-51	MW51-2	12/19/97	ND	0.000	ND	0.00	6.6	37.01	ND	0.00	48	141	1.6	7.797	3	16.34	4.1	27.8	10	53.63
OU 8-05-51	MW51-2	03/27/98	ND	0.000	ND	0.00	10.7	60.00	ND	0.00	1	3	2.4	11.695	4.9	26.68	17	115.1	1.3	6.97
OU 8-05-51	MW51-2	06/30/98	4.0	9.5	0.5	2.47	10	56.07	ND	0.00	2.2	6	1.97	9.600	4.9	26.68	16.8	113.7	0.91	4.88
OU 8-05-51	MW51-2	09/24/98	9.6	22.8	0.5	2.47	13	72.90	ND	0.00	1.9	6	2.4	11.695	5.6	30.50	18	121.8	1	5.36
OU 8-05-51	MW51-2	12/11/98	ND	0.000	0.6	2.96	11	61.68	ND	0.00	4.8	14	2.4	11.695	4.7	25.59	18.5	125.2	1	5.36
OU 8-05-51	MW51-2	03/29/99	4.6	10.9	0.6	2.96	10	56.07	ND	0.00	2.1	6	2.6	12.670	5.3	28.86	19	128.6	1.2	6.44
OU 8-05-51	MW51-2	06/29/99	3.1	7.3	ND	0.00	10.1	56.63	ND	0.00	2.1	6	2.2	10.721	4.9	26.68	15	101.5	0.75	4.02
OU 8-05-51	MW51-2	09/28/99	ND	0.000	ND	0.00	6.4	35.89	ND	0.00	3	9	2.2	10.721	4.3	23.42	16	108.3	0.8	4.29
OU 8-05-51	MW51-2	12/16/99	ND	0.000	0.6	2.96	11	61.68	ND	0.00	ND	ND	2.7	13.157	5	27.23	20	135.4	1.1	5.90
Sample Mean							10.8	60.7					2.3	11.1	5.2	28.3	17.3	116.9		
Standard Dev.							2.8	15.6					0.3	1.7	1.2	6.8	4.7	31.9		
Maximum							16.0	89.7					2.9	14.1	8.4	45.7	23.0	155.7		
Minimum							6.4	35.9					1.6	7.8	3.0	16.3	4.1	27.8		
Confidence							1.5	8.5					0.2	0.9	0.7	3.7	2.6	17.4		
OU 8-05-51	MW51-3	10/11/96	ND	0.000	ND	0.000	13	72.90	ND	0.00	ND	0.00	ND	0.000	4.8	26.14	19	128.6	ND	0.00
OU 8-05-51	MW51-3	03/21/97	ND	0.000	ND	0.000	8.4	47.10	ND	0.00	ND	0.00	ND	0.000	2.5	13.61	11	74.5	ND	0.00
OU 8-05-51	MW51-3	06/25/97	ND	0.000	ND	0.000	5.5	30.84	ND	0.00	ND	0.00	ND	0.000	3	16.34	13	88.0	ND	0.00
OU 8-05-51	MW51-3	09/26/97	ND	0.000	ND	0.000	11	61.68	ND	0.00	ND	0.00	1.2	5.848	5.7	31.04	21	142.2	ND	0.00
OU 8-05-51	MW51-3	12/19/97	ND	0.000	ND	0.000	3.8	21.31	ND	0.00	ND	0.00	ND	0.000	ND	0.00	ND	0.0	ND	0.00
OU 8-05-51	MW51-3	03/27/98	ND	0.000	ND	0.000	8.6	48.22	ND	0.00	ND	0.00	ND	0.000	2.4	13.07	8.5	57.5	ND	0.00
OU 8-05-51	MW51-3	06/30/98	ND	0.000	0.5	2.47	6.3	35.33	ND	0.00	ND	0.00	ND	0.000	2.9	15.79	83	561.9	ND	0.00
OU 8-05-51	MW51-3	09/24/98	3.2	7.6	ND	0.00	8.8	49.34	ND	0.00	ND	0.00	ND	0.000	3.8	20.69	17.9	121.2	ND	0.00
OU 8-05-51	MW51-3	12/11/98	ND	0.000	0.6	2.96	2.6	14.58	ND	0.00	ND	0.00	ND	0.000	1.5	8.17	11	74.5	ND	0.00
OU 8-05-51	MW51-3	03/29/99	4.7	11.1	0.6	2.96	6	33.64	ND	0.00	ND	0.00	ND	0.000	3.2	17.43	9.7	65.7	ND	0.00
OU 8-05-51	MW51-3	06/29/99	3.8	9.0	0.6	2.96	6	33.64	ND	0.00	ND	0.00	ND	0.000	3	16.34	9.7	65.7	ND	0.00
OU 8-05-51	MW51-3	09/28/99	ND	0.000	ND	0.00	1.5	8.41	ND	0.00	ND	0.00	ND	0.000	1.4	7.62	9.8	66.3	ND	0.00
OU 8-05-51	MW51-3	12/16/99	ND	0.000	ND	0.00	4	22.43	ND	0.00	ND	0.00	ND	0.000	2.1	11.44	12	81.2	ND	0.00
Sample Mean							6.6	36.9							2.8	15.2	17.4	117.5		
Standard Dev.							3.3	18.5							1.5	8.0	20.4	138.3		
Maximum							13.0	72.9							5.7	31.0	83.0	561.9		
Minimum							1.5	8.4							0.0	0.0	0.0	0.0		
Confidence							1.8	10.1							0.8	4.3	11.1	75.2		
OU 8-05-51	MW51-4	10/11/96	ND	0.000	ND	0.00	16	89.72	ND	0.00	ND	0.00	2.6	12.670	6	32.67	26	176.0	ND	0.00
OU 8-05-51	MW51-4	03/21/97	ND	0.000	ND	0.00	11	61.68	ND	0.00	ND	0.00	1.6	7.797	4.3	23.42	15	101.5	2	10.73
OU 8-05-51	MW51-4	06/25/97	ND	0.000	ND	0.00	8.5	47.66	ND	0.00	ND	0.00	2	9.746	4.2	22.87	16	108.3	ND	0.00
OU 8-05-51	MW51-4	09/26/97	ND	0.000	ND	0.00	14	78.50	ND	0.00	ND	0.00	2.6	12.670	7	38.12	24	162.5	ND	0.00
OU 8-05-51	MW51-4	12/19/97	ND	0.000	ND	0.00	6.8	38.13	ND	0.00	ND	0.00	1.4	6.822	2.8	15.25	14	94.8	ND	0.00
OU 8-05-51	MW51-4	03/27/98	ND	0.000	ND	0.00	9.4	52.71	ND	0.00	ND	0.00	1.4	6.822	3.4	18.52	14.6	98.8	ND	0.00
OU 8-05-51	MW51-4	06/30/98	ND	0.000	0.5	2.47	7.3	40.93	ND	0.00	ND	0.00	1.3	6.335	3.2	17.43	14.3	96.8	0.8	4.29
OU 8-05-51	MW51-4	09/24/98	3.4	8.1	0.5	2.47	1.7	9.53	ND	0.00	ND	0.00	ND	0.000	ND	0.00	3.1	21.0	ND	0.00
OU 8-05-51	MW51-4	12/11/98	7.5	17.8	0.6	2.96	6.7	37.57	ND	0.00	13	38	1.4	6.822	2.7	14.70	16.9	114.4	0.98	5.26
OU 8-05-51	MW51-4	03/29/99	7.1	16.8	0.6	2.96	9.2	51.59	ND	0.00	ND	0.00	1.7	8.284	4	21.78	16	108.3	0.96	5.15
OU 8-05-51	MW51-4	06/29/99	3.0	7.1	0.6	2.96	8.6	48.22	ND	0.00	ND	0.00	1.5	7.310	3.6	19.60	14	94.8	0.68	3.65
OU 8-05-51	MW51-4	09/28/99	4.9	11.6	ND	0.00	4.5	25.23	ND	0.00	ND	0.00	1.5	7.310	2.5	13.61	13	88.0	0.9	4.83
OU 8-05-51	MW51-4	12/16/99	2.7	6.401	0.6	2.96	6.7	37.57	ND	0.00	ND	0.00	1.6	7.797	3.3	17.97	18	121.8	1.1	5.90
Sample Mean							8.5	47.6					1.6	7.7	3.6	19.7	15.8	106.7		
Standard Dev.							3.7	20.9					0.6	3.1	1.7	9.2	5.5	36.9		
Maximum							16.0	89.7					2.6	12.7	7.0	38.1	26.0	176.0		
Minimum							1.7	9.5					0.0	0.0	0.0	0.0	3.1	21.0		
Confidence							2.0	11.4					0.3	1.7	0.9	5.0	3.0	20.1		

Denotes estimated quantiities ND Not Detected Denotes problem with lab quality, anomalous by one order of magnitude Quantity obtained after dilution MDL < Result < RL

Appendix F - Soil Gas Data - 1997 to 1999

Site	Location	Sample Date	Acetone		Freon 12		Freon 11		Freon 113		2-Butanone		Chloroform		TCA		PCE		TCE	
			(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3	(ppbv)	ug/m3
OU 8-05-1	Field Blank	10/11/96	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-05-1	Field Blank	03/21/97	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	9.9	67.0	ND	0.00
OU 8-05-1	Field Blank	06/25/97	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-05-1	Field Blank	09/26/97	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-05-1	Field Blank	12/19/97	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	5.5	37.2	ND	0.00
OU 8-05-1	Field Blank	03/27/98	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-05-1	Field Blank	06/30/98	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-05-1	Field Blank	09/24/98	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.0	ND	0.00
OU 8-05-1	Field Blank	12/11/98	ND	0.000	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	ND	ND	0.00
OU 8-05-1	Field Blank	03/29/99	8.4	19.9	0.9	4.44	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.2	8.1	ND	0.00
OU 8-05-1	Field Blank	06/29/99	4.4	10.4	0.6	2.96	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	2.2	14.9	ND	0.00
OU 8-05-1	Field Blank	09/28/99	3.6	8.5	0.7	3.45	ND	0.00	ND	0.00	ND	0.00	ND	0.00	ND	0.00	1.3	8.8	ND	0.00
OU 8-05-1	Field Blank	12/16/99	ND	0.000	0.5	2.47	ND	0.00	ND	0.00	7	21	ND	0.00	ND	0.00	0.8	5.4	ND	0.00