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Field Unit 1
TA-73 Los Alamos Airport

SOIL GAS FLUX CHAMBER TESTS
18 - 22 September 1995
Preliminary Results

ERM/Golder Los Alamos Project Team
28 November 1995

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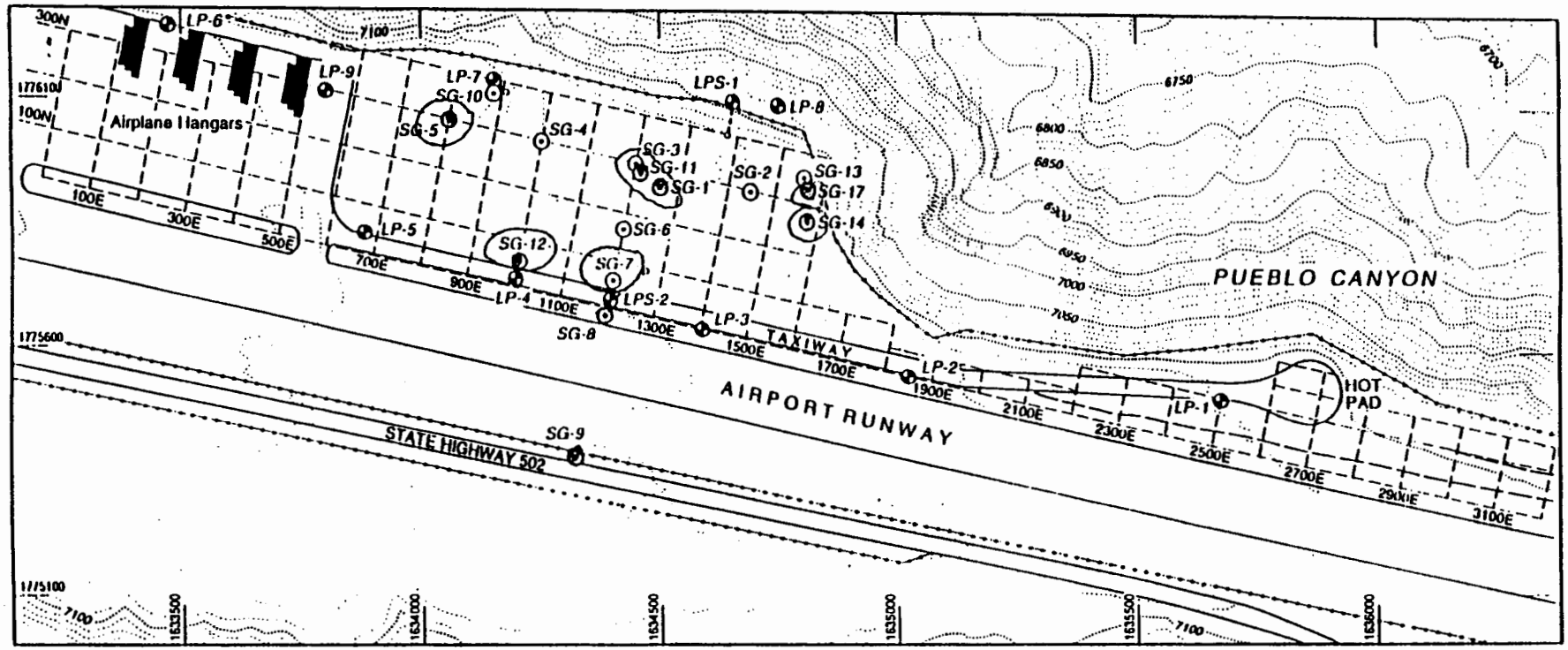
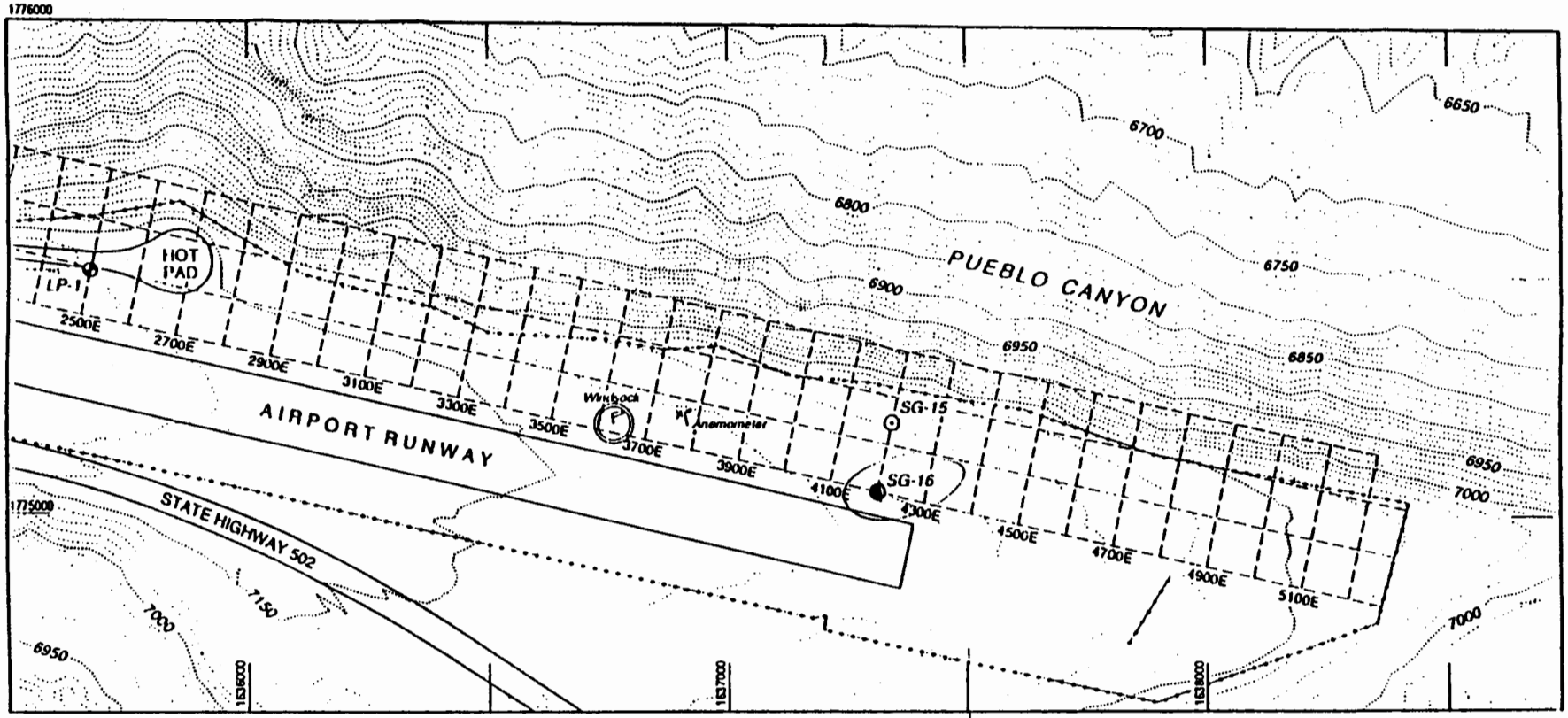


Figure 1. Estimated flux chamber sampling locations at main landfill area.

O = areas of higher emission (mostly short-term samples)



Paved area
Fence
Survey grid
Borehole/monitoring well
Estimated flux chamber sampling location
Contour interval = 10 ft

0 100 200 300 400 500 ft

Source: FIMAD 9/19/95, 103813
Modified by: cARTography by A. Kron 11/20/95

waste oil pit?

o Long Term Test Location
● Short Term Test Location

Figure 2. Extimated flux chamber sampling locations at debris disposal area.

Correction for Temperature and Pressure to Sampling Location
TA-73, Los Alamos Airport

DRAFT

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Dichlorodifluoromethane	500.49	476.39	285.83	338.26	13.01
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	3.339	3.18	1.91	2.26	0.09
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Freon 114	302.2	287.65	172.59	204.25	7.86
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Vinyl Chloride	239.2	227.68	136.61	161.67	6.22
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Chloroethane	8.98	8.55	5.13	6.07	0.23
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	36.359	34.61	20.76	24.57	0.95
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	cis-1-2-dichloroethene	857.85	816.54	489.92	579.79	22.30
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	trans-1-2-Dichloroethene	16.6383	15.84	9.50	11.25	0.43
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Chloroform	12.524	11.92	7.15	8.46	0.33
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Benzene	119.93	114.15	68.49	81.06	3.12
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Trichloroethene	25.77	24.53	14.72	17.42	0.67
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Toluene[B]	39.832	37.91	22.75	26.92	1.04
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Tetrachloroethene[B]	15.525	14.78	8.87	10.49	0.40
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Chlorobenzene	79.43	75.61	45.36	53.68	2.06
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Ethylbenzene[B]	399.52	380.28	228.17	270.02	10.39
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	M-P-Xylene[B]	1038.4	988.40	593.04	701.82	26.99
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	O-Xylene[B]	232.8	221.59	132.95	157.34	6.05
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	1-3-5-Trimethylbenzene	405.687	386.15	231.69	274.19	10.55
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	1-2-4-Trimethylbenzene	382.733	364.30	218.58	258.68	9.95
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	1-3-Dichlorobenzene	92.872	88.40	53.04	62.77	2.41
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	1-4-Dichlorobenzene	515.073	490.27	294.16	348.12	13.39
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	1-2-Dichlorobenzene	20.53	19.54	11.72	13.88	0.53
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	1-2-4-Trichlorobenzene	36.171	34.43	20.66	24.45	0.94
SG-1	0173-95-0119	9/21/95	52.94	284.63	30.025	762.64	Chlorodifluoromethane	2098.1	1997.07	1198.24	1418.04	54.54
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Dichlorodifluoromethane	9.054	8.81	5.29	27.82	1.07
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	3.465	3.37	2.02	10.65	0.41
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	37.065	36.07	21.64	113.90	4.38
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	cis-1-2-dichloroethene	11.1321	10.83	6.50	34.21	1.32
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Toluene[B]	9.958	9.69	5.81	30.60	1.18
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Tetrachloroethene[B]	5.313	5.17	3.10	16.33	0.63
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Ethylbenzene[B]	5.94	5.78	3.47	18.25	0.70
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	14.036	13.66	8.19	43.13	1.66
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	4.136	4.02	2.41	12.71	0.49
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	1-3-Dichlorobenzene	8.8595	8.62	5.17	27.22	1.05
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	1-4-Dichlorobenzene	13.442	13.08	7.85	41.31	1.59
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	1-2-4-Trichlorobenzene	9.8512	9.59	5.75	30.27	1.16
SG-5	0173-95-0120	9/20/95	64.35	290.97	30.024	762.61	Chlorodifluoromethane	3.124	3.04	1.82	9.60	0.37

GROUND EMANATION PRELIMINARY DATA

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Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-8	0173-95-0121	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.541	2.42	1.45	1.72	0.07
SG-8	0173-95-0121	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	29.652	28.22	16.93	20.04	0.77
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.772	2.70	1.62	8.52	0.33
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	Trichlorofluoromethane[B]	2.9692	2.89	1.73	9.12	0.35
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	1-1-Dichloroethylene	3.4658	3.37	2.02	10.65	0.41
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	61.422	59.77	35.86	188.74	7.26
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	Tetrachloroethene[B]	9.729	9.47	5.68	29.90	1.15
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	Ethylbenzene[B]	2.948	2.87	1.72	9.06	0.35
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	13.42	13.06	7.84	41.24	1.59
SG-9	0173-95-0122	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	2.508	2.44	1.46	7.71	0.30
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Dichlorodifluoromethane	331.98	315.99	189.60	224.37	8.63
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	27.72	26.39	15.83	18.74	0.72
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Freon 114	357.6	340.38	204.23	241.69	9.30
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Vinyl Chloride	73.32	69.79	41.87	49.55	1.91
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Chloroethane	10.4	9.90	5.94	7.03	0.27
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Trichlorofluoromethane[B]	23.1826	22.07	13.24	15.67	0.60
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	1-1-Dichloroethylene	3.1837	3.03	1.82	2.15	0.08
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	37.065	35.28	21.17	25.05	0.96
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	cis-1-2-dichloroethene	379.05	360.80	216.48	256.19	9.85
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	trans-1-2-Dichloroethene	7.2219	6.87	4.12	4.88	0.19
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Chloroform	11.633	11.07	6.64	7.86	0.30
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Benzene	5.4275	5.17	3.10	3.67	0.14
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Trichloroethene	17.973	17.11	10.26	12.15	0.47
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Toluene[B]	6.2429	5.94	3.57	4.22	0.16
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Tetrachloroethene[B]	13.662	13.00	7.80	9.23	0.36
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Ethylbenzene[B]	53.68	51.10	30.66	36.28	1.40
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	M-P-Xylene[B]	96.36	91.72	55.03	65.13	2.50
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	O-Xylene[B]	28.82	27.43	16.46	19.48	0.75
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	1-3-5-Trimethylbenzene	71.357	67.92	40.75	48.23	1.85
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	1-2-4-Trimethylbenzene	33.8821	32.25	19.35	22.90	0.88
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	1-4-Dichlorobenzene	186.966	177.96	106.78	126.36	4.86
SG-11	0173-95-0123	9/21/95	52.94	284.63	30.025	762.64	Chlorodifluoromethane	564.45	537.27	322.36	381.49	14.67
SG-12	0173-95-0124	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.079	1.98	1.19	1.41	0.05
SG-12	0173-95-0124	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	28.6989	27.32	16.39	19.40	0.75
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Dichlorodifluoromethane	43.61	42.44	25.46	134.01	5.15

GROUND EMANATION PRELIMINARY DATA

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Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	4.662	4.54	2.72	14.33	0.55
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Freon 114	35.41	34.46	20.67	108.81	4.19
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	33.9233	33.01	19.81	104.24	4.01
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Tetrachloroethene[B]	4.692	4.57	2.74	14.42	0.55
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Chlorobenzene	2.444	2.38	1.43	7.51	0.29
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Ethylbenzene[B]	10.868	10.58	6.35	33.40	1.28
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	12.408	12.07	7.24	38.13	1.47
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	6.336	6.17	3.70	19.47	0.75
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	1-3-5-Trimethylbenzene	4.1417	4.03	2.42	12.73	0.49
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	1-2-4-Trimethylbenzene	18.9121	18.40	11.04	58.11	2.24
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	1-4-Dichlorobenzene	75.153	73.13	43.88	230.94	8.88
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	1-2-Dichlorobenzene	3.361	3.27	1.96	10.33	0.40
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	1-2-4-Trichlorobenzene	4.512	4.39	2.63	13.86	0.53
SG-14	0173-95-0125	9/20/95	64.35	290.97	30.024	762.61	Chlorodifluoromethane	14.768	14.37	8.62	45.38	1.75
SG-16	0173-95-0126	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.541	2.47	1.48	7.81	0.30
SG-16	0173-95-0126	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	28.946	28.17	16.90	88.95	3.42
SG-17	0173-95-0127	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.94	2.86	1.72	9.03	0.35
SG-17	0173-95-0127	9/20/95	64.35	290.97	30.024	762.61	Trichlorofluoromethane[B]	16.7874	16.34	9.80	51.59	1.98
SG-17	0173-95-0127	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	76.954	74.88	44.93	236.47	9.09
SG-17	0173-95-0127	9/20/95	64.35	290.97	30.024	762.61	Toluene[B]	2.2214	2.16	1.30	6.83	0.26
SG-17	0173-95-0127	9/20/95	64.35	290.97	30.024	762.61	Tetrachloroethene[B]	12.972	12.62	7.57	39.86	1.53
SG-17	0173-95-0127	9/20/95	64.35	290.97	30.024	762.61	1-4-Dichlorobenzene	10.3259	10.05	6.03	31.73	1.22
SG-17	0173-95-0128	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.625	2.55	1.53	8.07	0.31
SG-17	0173-95-0128	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	47.302	46.03	27.62	145.35	5.59
SG-17	0173-95-0128	9/20/95	64.35	290.97	30.024	762.61	Tetrachloroethene[B]	4.83	4.70	2.82	14.84	0.57
SG-17	0173-95-0128	9/20/95	64.35	290.97	30.024	762.61	1-4-Dichlorobenzene	7.5764	7.37	4.42	23.28	0.90
SG-17	0173-95-0129	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.31	2.20	1.32	1.56	0.06
SG-17	0173-95-0129	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	30.6404	29.16	17.50	20.71	0.80
SG-17	0173-95-0129	9/21/95	52.94	284.63	30.025	762.64	1-4-Dichlorobenzene	4.8269	4.59	2.76	3.26	0.13
SG-17	0173-95-0130	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.709	2.58	1.55	1.83	0.07
SG-17	0173-95-0130	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	42.713	40.66	24.39	28.87	1.11
SG-17	0173-95-0130	9/21/95	52.94	284.63	30.025	762.64	1-4-Dichlorobenzene	4.7047	4.48	2.69	3.18	0.12
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Dichlorodifluoromethane	533.18	507.50	304.50	360.36	13.86
SG-'	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	38.43	36.58	21.95	25.97	1.00

DRAFT

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Freon 114	387.5	368.84	221.30	261.90	10.07
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Vinyl Chloride	270.4	257.38	154.43	182.75	7.03
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Chloroethane	10.6	10.09	6.05	7.16	0.28
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-1-Dichloroethylene	8.9063	8.48	5.09	6.02	0.23
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	30.7463	29.27	17.56	20.78	0.80
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	cis-1-2-dichloroethene	1177.05	1120.37	672.22	795.53	30.60
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	trans-1-2-Dichloroethene	16.9176	16.10	9.66	11.43	0.44
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Chloroform	11.682	11.12	6.67	7.90	0.30
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Benzene	136.83	130.24	78.14	92.48	3.56
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Trichloroethene	28.701	27.32	16.39	19.40	0.75
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Toluene[B]	35.9637	34.23	20.54	24.31	0.93
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Tetrachloroethene[B]	14.835	14.12	8.47	10.03	0.39
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Chlorobenzene	53.58	51.00	30.60	36.21	1.39
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Ethylbenzene[B]	365.64	348.03	208.82	247.12	9.50
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	M-P-Xylene[B]	959.2	913.01	547.81	648.29	24.93
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	O-Xylene[B]	180.4	171.71	103.03	121.93	4.69
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-3-5-Trimethylbenzene	888.22	845.45	507.27	600.32	23.09
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-2-4-Trimethylbenzene	573.85	546.22	327.73	387.85	14.92
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-3-Dichlorobenzene	101.426	96.54	57.93	68.55	2.64
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-4-Dichlorobenzene	837.07	20.36	12.22	14.46	0.56
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-2-Dichlorobenzene	21.39	20.36	12.22	14.46	0.56
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	1-2-4-Trichlorobenzene	62.717	59.70	35.82	42.39	1.63
SG-1	0173-95-0131	9/21/95	52.94	284.63	30.025	762.64	Chlorodifluoromethane	2279.1	2169.35	1301.61	1540.37	59.24
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Dichlorodifluoromethane	9.8588	9.59	5.76	30.29	1.17
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.625	2.55	1.53	8.07	0.31
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	25.8043	25.11	15.07	79.29	3.05
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	cis-1-2-dichloroethene	10.374	10.09	6.06	31.88	1.23
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Toluene[B]	8.9622	8.72	5.23	27.54	1.06
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Tetrachloroethene[B]	5.589	5.44	3.26	17.17	0.66
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Ethylbenzene[B]	5.852	5.69	3.42	17.98	0.69
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	12.892	12.54	7.53	39.62	1.52
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	3.564	3.47	2.08	10.95	0.42
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	1-3-Dichlorobenzene	10.2037	9.93	5.96	31.35	1.21
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	1-4-Dichlorobenzene	12.2811	11.95	7.17	37.74	1.45
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	1-2-Dichlorobenzene	3.788	3.69	2.21	11.64	0.45
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	1-2-4-Trichlorobenzene	10.002	9.73	5.84	30.73	1.18
SG-5	0173-95-0132	9/20/95	64.35	290.97	30.024	762.61	Chlorodifluoromethane	2.7335	2.66	1.60	8.40	0.32
FB	0173-95-0133	9/18/95	63.71	290.62	30.02	762.51	Trichlorofluoromethane[B]	68.52	66.60			2.56
FB	0173-95-0133	9/18/95	63.71	290.62	30.02	762.51	Methylene Chloride[B]	54.009	52.50			2.02

GROUND EMANATION PRELIMINARY DATA

DRAFT

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
FB	0173-95-0133	9/18/95	63.71	290.62	30.02	762.51	Toluene[B]	2.9491	2.87			0.11
FB	0173-95-0133	9/18/95	63.71	290.62	30.02	762.51	Tetrachloroethene[B]	3.864	3.76			0.14
FB	0173-95-0133	9/18/95	63.71	290.62	30.02	762.51	M-P-Xylene[B]	6.952	6.76			0.26
FB	0173-95-0134	9/18/95	63.71	290.62	30.02	762.51	Chloromethane[B]	2.394	2.33			0.09
FB	0173-95-0134	9/18/95	63.71	290.62	30.02	762.51	Methylene Chloride[B]	40.595	39.46			1.52
FB	0173-95-0134	9/18/95	63.71	290.62	30.02	762.51	Ethylbenzene[B]	18.876	18.35			0.71
FB	0173-95-0134	9/18/95	63.71	290.62	30.02	762.51	M-P-Xylene[B]	100.32	97.51			3.75
FB	0173-95-0134	9/18/95	63.71	290.62	30.02	762.51	O-Xylene[B]	20.37	19.80			0.76
SG-2	0173-95-0251	9/18/95	63.71	290.62	30.02	762.51	Chloromethane[B]	3.948	3.84	LT	LT	0.15
SG-2	0173-95-0251	9/18/95	63.71	290.62	30.02	762.51	Methylene Chloride[B]	37.065	36.03	LT	LT	1.39
SG-2	0173-95-0251	9/18/95	63.71	290.62	30.02	762.51	Toluene[B]	4.4428	4.32	LT	LT	0.17
SG-2	0173-95-0251	9/18/95	63.71	290.62	30.02	762.51	Ethylbenzene[B]	5.808	5.65	LT	LT	0.22
SG-2	0173-95-0251	9/18/95	63.71	290.62	30.02	762.51	M-P-Xylene[B]	28.204	27.41	LT	LT	1.05
SG-2	0173-95-0251	9/18/95	63.71	290.62	30.02	762.51	O-Xylene[B]	7.832	7.61	LT	LT	0.29
SG-2	0173-95-0252	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	3.927	3.81	LT	LT	0.15
SG-2	0173-95-0252	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	39.536	38.40	LT	LT	1.48
SG-2	0173-95-0252	9/19/95	63.41	290.45	30.023	762.58	Ethylbenzene[B]	2.904	2.82	LT	LT	0.11
SG-2	0173-95-0252	9/19/95	63.41	290.45	30.023	762.58	M-P-Xylene[B]	15.136	14.70	LT	LT	0.57
SG-2	0173-95-0252	9/19/95	63.41	290.45	30.023	762.58	O-Xylene[B]	4.312	4.19	LT	LT	0.16
SG-2	0173-95-0253	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	3.549	3.45	LT	LT	0.13
SG-2	0173-95-0253	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	30.7463	29.92	LT	LT	1.15
SG-2	0173-95-0254	9/21/95	52.96	284.64	30.025	762.64	Chloromethane[B]	3.633	3.46	LT	LT	0.13
SG-2	0173-95-0254	9/21/95	52.96	284.64	30.025	762.64	Methylene Chloride[B]	35.653	33.94	LT	LT	1.31
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Dichlorodifluoromethane	17.756	17.26	LT	LT	0.66
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Chloromethane[B]	3.528	3.43	LT	LT	0.13
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Freon 114	40.1	38.98	LT	LT	1.50
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Trichlorofluoromethane[B]	215.267	209.24	LT	LT	8.05
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Methylene Chloride[B]	32.5819	31.67	LT	LT	1.22
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Toluene[B]	5.1705	5.03	LT	LT	0.19
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Ethylbenzene[B]	2.772	2.69	LT	LT	0.10
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	M-P-Xylene[B]	14.08	13.69	LT	LT	0.53
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	O-Xylene[B]	3.124	3.04	LT	LT	0.12

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-3	0173-95-0255	9/18/95	63.71	290.62	30.02	762.51	Chlorodifluoromethane	22.578	21.95	LT	LT	0.84
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	Dichlorodifluoromethane	29.275	28.44	LT	LT	1.09
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	5.418	5.26	LT	LT	0.20
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	Freon 114	64.56	62.71	LT	LT	2.41
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	48.714	47.32	LT	LT	1.82
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	Toluene[B]	3.1789	3.09	LT	LT	0.12
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	M-P-Xylene[B]	4.444	4.32	LT	LT	0.17
SG-3	0173-95-0256	9/19/95	63.41	290.45	30.023	762.58	Chlorodifluoromethane	29.82	28.97	LT	LT	1.11
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	Dichlorodifluoromethane	14.839	14.44	LT	LT	0.56
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	Freon 114	33.91	33.00	LT	LT	1.27
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	25.3454	24.66	LT	LT	0.95
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	Toluene[B]	2.7193	2.65	LT	LT	0.10
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	Ethylbenzene[B]	2.772	2.70	LT	LT	0.10
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	14.652	14.26	LT	LT	0.55
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	3.08	3.00	LT	LT	0.12
SG-3	0173-95-0257	9/20/95	64.35	290.97	30.024	762.61	Chlorodifluoromethane	17.111	16.65	LT	LT	0.64
SG-3	0173-95-0258	9/21/95	52.94	284.63	30.025	762.64	Dichlorodifluoromethane	12.827	12.21	LT	LT	0.47
SG-3	0173-95-0258	9/21/95	52.94	284.63	30.025	762.64	Freon 114	26.66	25.38	LT	LT	0.98
SG-3	0173-95-0258	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	25.9808	24.73	LT	LT	0.95
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	1.869	1.82	LT	LT	0.07
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	Trichlorofluoromethane[B]	40.7123	39.55	LT	LT	1.52
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	46.243	44.92	LT	LT	1.73
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	1-1-1-Trichloroethane	3.5945	3.49	LT	LT	0.13
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	Toluene[B]	35.4275	34.41	LT	LT	1.32
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	Tetrachloroethene[B]	8.487	8.24	LT	LT	0.32
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	M-P-Xylene[B]	3.696	3.59	LT	LT	0.14
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	1-2-4-Trimethylbenzene	4.3413	4.22	LT	LT	0.16
SG-4	0173-95-0259	9/19/95	63.41	290.45	30.023	762.58	Chlorodifluoromethane	18.212	17.69	LT	LT	0.68
SG-4	0173-95-0260	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	1.638	1.59	LT	LT	0.06
SG-4	0173-95-0260	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	32.0171	31.16	LT	LT	1.20
SG-4	0173-95-0261	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	1.827	1.74	LT	LT	0.07
SG-4	0173-95-0261	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	22.4861	21.40	LT	LT	0.82
SG-4	0173-95-0262	9/22/95	42.65	278.92	30.032	762.81	Chloromethane[B]	1.47	1.37	LT	LT	0.05

GROUND EMANATION PRELIMINARY DATA

DRAFT

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-4	0173-95-0262	9/22/95	42.65	278.92	30.032	762.81	Methylene Chloride[B]	26.7927	24.98	LT	LT	0.96
SG-6	0173-95-0263	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	2.163	2.10	LT	LT	0.08
SG-6	0173-95-0263	9/19/95	63.41	290.45	30.023	762.58	Trichlorofluoromethane[B]	43.7386	42.49	LT	LT	1.63
SG-6	0173-95-0263	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	27.0751	26.30	LT	LT	1.01
SG-6	0173-95-0264	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	1.806	1.76	LT	LT	0.07
SG-6	0173-95-0264	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	30.1109	29.30	LT	LT	1.13
SG-6	0173-95-0264	9/20/95	64.35	290.97	30.024	762.61	Toluene[B]	1.9533	1.90	LT	LT	0.07
SG-6	0173-95-0264	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	11.176	10.88	LT	LT	0.42
SG-6	0173-95-0264	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	3.036	2.95	LT	LT	0.11
SG-6	0173-95-0265	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	1.722	1.64	LT	LT	0.06
SG-6	0173-95-0265	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	24.7453	23.55	LT	LT	0.91
SG-6	0173-95-0266	9/22/95	42.65	278.92	30.032	762.81	Chloromethane[B]	1.701	1.59	LT	LT	0.06
SG-6	0173-95-0266	9/22/95	42.65	278.92	30.032	762.81	Methylene Chloride[B]	25.5572	23.83	LT	LT	0.92
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	Chloromethane[B]	4.305	4.18	LT	LT	0.16
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	Trichlorofluoromethane[B]	55.2157	53.67	LT	LT	2.06
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	Methylene Chloride[B]	48.714	47.35	LT	LT	1.82
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	cis-1-2-dichloroethene	5.187	5.04	LT	LT	0.19
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	Toluene[B]	2.4512	2.38	LT	LT	0.09
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	Ethylbenzene[B]	2.464	2.40	LT	LT	0.09
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	M-P-Xylene[B]	12.584	12.23	LT	LT	0.47
SG-7	0173-95-0267	9/18/95	63.71	290.62	30.02	762.51	O-Xylene[B]	3.52	3.42	LT	LT	0.13
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	3.423	3.32	LT	LT	0.13
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	42.36	41.15	LT	LT	1.58
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	cis-1-2-dichloroethene	6.3042	6.12	LT	LT	0.24
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	Toluene[B]	1.915	1.86	LT	LT	0.07
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	Ethylbenzene[B]	8.932	8.68	LT	LT	0.33
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	M-P-Xylene[B]	43.78	42.53	LT	LT	1.64
SG-7	0173-95-0268	9/19/95	63.41	290.45	30.023	762.58	O-Xylene[B]	12.32	11.97	LT	LT	0.46
SG-7	0173-95-0269	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	4.347	4.23	LT	LT	0.16
SG-7	0173-95-0269	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	40.242	39.16	LT	LT	1.51
SG-7	0173-95-0269	9/20/95	64.35	290.97	30.024	762.61	cis-1-2-dichloroethene	5.8653	5.71	LT	LT	0.22

DRAFT

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-7	0173-95-0270	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.268	2.16	LT	LT	0.08
SG-7	0173-95-0270	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	30.7463	29.27	LT	LT	1.13
SG-7	0173-95-0270	9/21/95	52.94	284.63	30.025	762.64	cis-1-2-dichloroethene	6.1047	5.81	LT	LT	0.22
SG-7	0173-95-0270	9/21/95	52.94	284.63	30.025	762.64	Toluene[B]	2.9108	2.77	LT	LT	0.11
SG-7	0173-95-0270	9/21/95	52.94	284.63	30.025	762.64	M-P-Xylene[B]	2.42	2.30	LT	LT	0.09
SG-10	0173-95-0271	9/19/95	63.41	290.45	30.023	762.58	Dichlorodifluoromethane	2.5653	2.49	LT	LT	0.10
SG-10	0173-95-0271	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	3.024	2.94	LT	LT	0.11
SG-10	0173-95-0271	9/19/95	63.41	290.45	30.023	762.58	Trichlorofluoromethane[B]	30.9482	30.06	LT	LT	1.16
SG-10	0173-95-0271	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	33.4291	32.47	LT	LT	1.25
SG-10	0173-95-0271	9/19/95	63.41	290.45	30.023	762.58	Toluene[B]	1.9916	1.93	LT	LT	0.07
SG-10	0173-95-0272	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.877	2.80	LT	LT	0.11
SG-10	0173-95-0272	9/20/95	64.35	290.97	30.024	762.61	Trichlorofluoromethane[B]	21.8122	21.22	LT	LT	0.82
SG-10	0173-95-0272	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	28.3459	27.58	LT	LT	1.06
SG-10	0173-95-0272	9/20/95	64.35	290.97	30.024	762.61	Ethylbenzene[B]	4.268	4.15	LT	LT	0.16
SG-10	0173-95-0272	9/20/95	64.35	290.97	30.024	762.61	M-P-Xylene[B]	22.132	21.54	LT	LT	0.83
SG-10	0173-95-0272	9/20/95	64.35	290.97	30.024	762.61	O-Xylene[B]	4.752	4.62	LT	LT	0.18
SG-10	0173-95-0273	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.961	2.82	LT	LT	0.11
SG-10	0173-95-0273	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	28.0282	26.68	LT	LT	1.03
SG-10	0173-95-0274	9/22/95	42.65	278.92	30.032	762.81	Dichlorodifluoromethane	3.8228	3.56	LT	LT	0.14
SG-10	0173-95-0274	9/22/95	42.65	278.92	30.032	762.81	Chloromethane[B]	3.507	3.27	LT	LT	0.13
SG-10	0173-95-0274	9/22/95	42.65	278.92	30.032	762.81	Methylene Chloride[B]	21.1447	19.72	LT	LT	0.76
SG-13	0173-95-0275	9/18/95	63.71	290.62	30.02	762.51	Chloromethane[B]	2.877	2.80	LT	LT	0.11
SG-13	0173-95-0275	9/18/95	63.71	290.62	30.02	762.51	Trichlorofluoromethane[B]	99.925	97.13	LT	LT	3.74
SG-13	0173-95-0275	9/18/95	63.71	290.62	30.02	762.51	Methylene Chloride[B]	37.771	36.71	LT	LT	1.41
SG-13	0173-95-0275	9/18/95	63.71	290.62	30.02	762.51	Toluene[B]	6.1663	5.99	LT	LT	0.23
SG-13	0173-95-0275	9/18/95	63.71	290.62	30.02	762.51	Tetrachloroethene[B]	4.002	3.89	LT	LT	0.15
SG-13	0173-95-0275	9/18/95	63.71	290.62	30.02	762.51	M-P-Xylene[B]	2.332	2.27	LT	LT	0.09
SG-13	0173-95-0276	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	3.108	3.02	LT	LT	0.12
SG-13	0173-95-0276	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	34.2763	33.29	LT	LT	1.28
SG-13	0173-95-0276	9/19/95	63.41	290.45	30.023	762.58	Toluene[B]	2.9874	2.90	LT	LT	0.11
SG-13	0173-95-0276	9/19/95	63.41	290.45	30.023	762.58	Ethylbenzene[B]	3.564	3.46	LT	LT	0.13

GROUND EMANATION PRELIMINARY DATA

DRAFT

Location	Sample ID	Collection Date	Avg Temp (deg F)	Avg. Temp (deg K)	Avg Barometric Pressure (In. Hg)	Avg Barometric Pressure (mm Hg)	Compound Name	Compound Concentration (ug/m3)	Compound Concentration at TA-73	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Emission Rate for Landfill Sampling Location (ug/m2-min)
SG-13	0173-95-0276	9/19/95	63.41	290.45	30.023	762.58	M-P-Xylene[B]	18.524	17.99	LT	LT	0.69
SG-13	0173-95-0276	9/19/95	63.41	290.45	30.023	762.58	O-Xylene[B]	4.092	3.97	LT	LT	0.15
SG-13	0173-95-0277	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.583	2.51	LT	LT	0.10
SG-13	0173-95-0277	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	26.4044	25.69	LT	LT	0.99
SG-13	0173-95-0278	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.289	2.18	LT	LT	0.08
SG-13	0173-95-0278	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	24.9924	23.79	LT	LT	0.91
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	Chloromethane[B]	2.436	2.37	LT	LT	0.09
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	Trichlorofluoromethane[B]	65.665	63.78	LT	LT	2.45
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	Methylene Chloride[B]	29.5814	28.73	LT	LT	1.11
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	Toluene[B]	2.298	2.23	LT	LT	0.09
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	Ethylbenzene[B]	3.872	3.76	LT	LT	0.14
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	M-P-Xylene[B]	21.252	20.64	LT	LT	0.79
SG-15	0173-95-0279	9/19/95	63.41	290.45	30.023	762.58	O-Xylene[B]	4.796	4.66	LT	LT	0.18
SG-15	0173-95-0280	9/20/95	64.35	290.97	30.024	762.61	Chloromethane[B]	2.331	2.27	LT	LT	0.09
SG-15	0173-95-0280	9/20/95	64.35	290.97	30.024	762.61	Trichlorofluoromethane[B]	6.9091	6.72	LT	LT	0.26
SG-15	0173-95-0280	9/20/95	64.35	290.97	30.024	762.61	Methylene Chloride[B]	31.2052	30.37	LT	LT	1.17
SG-15	0173-95-0281	9/21/95	52.94	284.63	30.025	762.64	Chloromethane[B]	2.184	2.08	LT	LT	0.08
SG-15	0173-95-0281	9/21/95	52.94	284.63	30.025	762.64	Trichlorofluoromethane[B]	5.71	5.44	LT	LT	0.21
SG-15	0173-95-0281	9/21/95	52.94	284.63	30.025	762.64	Methylene Chloride[B]	28.0282	26.68	LT	LT	1.03
SG-15	0173-95-0281	9/21/95	52.94	284.63	30.025	762.64	Benzene	1.8525	1.76	LT	LT	0.07
SG-15	0173-95-0282	9/22/95	42.65	278.92	30.032	762.81	Chloromethane[B]	2.184	2.04	LT	LT	0.08
SG-15	0173-95-0282	9/22/95	42.65	278.92	30.032	762.81	Trichlorofluoromethane[B]	7.1375	6.66	LT	LT	0.26
SG-15	0173-95-0282	9/22/95	42.65	278.92	30.032	762.81	Methylene Chloride[B]	29.1578	27.19	LT	LT	1.05
SG-15	0173-95-0282	9/22/95	42.65	278.92	30.032	762.81	Toluene[B]	3.447	3.21	LT	LT	0.12

TOTAL AREA OF THE LANDFILL
48,077

TA-73, LOS ALAMOS AIRPORT, MAIN LANDFILL
SHORT TERM SAMPLE LOCATIONS
PRELIMINARY EMANATION RATES

DRAFT

Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-1	0173-95-0119	Dichlorodifluoromethane	476.39	285.83	338.26	13.01	52123.08
SG-1	0173-95-0119	Chloromethane[B]	3.18	1.91	2.26	0.09	347.74
SG-1	0173-95-0119	Freon 114	287.65	172.59	204.25	7.86	31472.34
SG-1	0173-95-0119	Vinyl Chloride	227.68	136.61	161.67	6.22	24911.27
SG-1	0173-95-0119	Chloroethane	8.55	5.13	6.07	0.23	935.21
SG-1	0173-95-0119	Methylene Chloride[B]	34.61	20.76	24.57	0.95	3786.57
SG-1	0173-95-0119	cis-1-2-dichloroethene	816.54	489.92	579.79	22.30	89340.01
SG-1	0173-95-0119	trans-1-2-Dichloroethene	15.84	9.50	11.25	0.43	1732.78
SG-1	0173-95-0119	Chloroform	11.92	7.15	8.46	0.33	1304.30
SG-1	0173-95-0119	Benzene	114.15	68.49	81.06	3.12	12490.00
SG-1	0173-95-0119	Trichloroethene	24.53	14.72	17.42	0.67	2683.79
SG-1	0173-95-0119	Toluene[B]	37.91	22.75	26.92	1.04	4148.27
SG-1	0173-95-0119	Tetrachloroethene[B]	14.78	8.87	10.49	0.40	1616.84
SG-1	0173-95-0119	Chlorobenzene	75.61	45.36	53.68	2.06	8272.17
SG-1	0173-95-0119	Ethylbenzene[B]	380.28	228.17	270.02	10.39	41607.65
SG-1	0173-95-0119	M-P-Xylene[B]	988.40	593.04	701.82	26.99	108143.22
SG-1	0173-95-0119	O-Xylene[B]	221.59	132.95	157.34	6.05	24244.74
SG-1	0173-95-0119	1-3-5-Trimethylbenzene	386.15	231.69	274.19	10.55	42249.90
SG-1	0173-95-0119	1-2-4-Trimethylbenzene	364.30	218.58	258.68	9.95	39859.38
SG-1	0173-95-0119	1-3-Dichlorobenzene	88.40	53.04	62.77	2.41	9672.07
SG-1	0173-95-0119	1-4-Dichlorobenzene	490.27	294.16	348.12	13.39	53641.81
SG-1	0173-95-0119	1-2-Dichlorobenzene	19.54	11.72	13.88	0.53	2138.08

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Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-1	0173-95-0119	1-2-4-Trichlorobenzene	34.43	20.66	24.45	0.94	3767.00
SG-1	0173-95-0119	Chlorodifluoromethane	1997.07	1198.24	1418.04	54.54	218504.71
SG-5	0173-95-0120	Dichlorodifluoromethane	8.81	5.29	27.82	1.07	4287.05
SG-5	0173-95-0120	Chloromethane[B]	3.37	2.02	10.65	0.41	1640.67
SG-5	0173-95-0120	Methylene Chloride[B]	36.07	21.64	113.90	4.38	17550.20
SG-5	0173-95-0120	cis-1-2-dichloroethene	10.83	6.50	34.21	1.32	5271.02
SG-5	0173-95-0120	Toluene[B]	9.69	5.81	30.60	1.18	4715.09
SG-5	0173-95-0120	Tetrachloroethene[B]	5.17	3.10	16.33	0.63	2515.69
SG-5	0173-95-0120	Ethylbenzene[B]	5.78	3.47	18.25	0.70	2812.58
SG-5	0173-95-0120	M-P-Xylene[B]	13.66	8.19	43.13	1.66	6646.02
SG-5	0173-95-0120	O-Xylene[B]	4.02	2.41	12.71	0.49	1958.39
SG-5	0173-95-0120	1-3-Dichlorobenzene	8.62	5.17	27.22	1.05	4194.95
SG-5	0173-95-0120	1-4-Dichlorobenzene	13.08	7.85	41.31	1.59	6364.76
SG-5	0173-95-0120	1-2-4-Trichlorobenzene	9.59	5.75	30.27	1.16	4664.52
SG-5	0173-95-0120	Chlorodifluoromethane	3.04	1.82	9.60	0.37	1479.21
SG-11	0173-95-0123	Dichlorodifluoromethane	315.99	189.60	224.37	8.63	34573.75
SG-11	0173-95-0123	Chloromethane[B]	26.39	15.83	18.74	0.72	2886.87
SG-11	0173-95-0123	Freon 114	340.38	204.23	241.69	9.30	37241.93
SG-11	0173-95-0123	Vinyl Chloride	69.79	41.87	49.55	1.91	7635.84
SG-11	0173-95-0123	Chloroethane	9.90	5.94	7.03	0.27	1083.10
SG-11	0173-95-0123	Trichlorofluoromethane[B]	22.07	13.24	15.67	0.60	2414.33
SG-11	0173-95-0123	1-1-Dichloroethylene	3.03	1.82	2.15	0.08	331.56
SG-11	0173-95-0123	Methylene Chloride[B]	35.28	21.17	25.05	0.96	3860.10
SG-11	0173-95-0123	cis-1-2-dichloroethene	360.80	216.48	256.19	9.85	39475.82
SG-11	0173-95-0123	trans-1-2-Dichloroethene	6.87	4.12	4.88	0.19	752.12
SG-11	0173-95-0123	Chloroform	11.07	6.64	7.86	0.30	1211.51

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Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-11	0173-95-0123	Benzene	5.17	3.10	3.67	0.14	565.24
SG-11	0173-95-0123	Trichloroethene	17.11	10.26	12.15	0.47	1871.78
SG-11	0173-95-0123	Toluene[B]	5.94	3.57	4.22	0.16	650.16
SG-11	0173-95-0123	Tetrachloroethene[B]	13.00	7.80	9.23	0.36	1422.82
SG-11	0173-95-0123	Ethylbenzene[B]	51.10	30.66	36.28	1.40	5590.45
SG-11	0173-95-0123	M-P-Xylene[B]	91.72	55.03	65.13	2.50	10035.32
SG-11	0173-95-0123	O-Xylene[B]	27.43	16.46	19.48	0.75	3001.43
SG-11	0173-95-0123	1-3-5-Trimethylbenzene	67.92	40.75	48.23	1.85	7431.41
SG-11	0173-95-0123	1-2-4-Trimethylbenzene	32.25	19.35	22.90	0.88	3528.62
SG-11	0173-95-0123	1-4-Dichlorobenzene	177.96	106.78	126.36	4.86	19471.40
SG-11	0173-95-0123	Chlorodifluoromethane	537.27	322.36	381.49	14.67	58784.13
SG-12	0173-95-0124	Chloromethane[B]	1.98	1.19	1.41	0.05	216.52
SG-12	0173-95-0124	Methylene Chloride[B]	27.32	16.39	19.40	0.75	2988.82
SG-14	0173-95-0125	Dichlorodifluoromethane	42.44	25.46	134.01	5.15	20649.24
SG-14	0173-95-0125	Chloromethane[B]	4.54	2.72	14.33	0.55	2207.45
SG-14	0173-95-0125	Freon 114	34.46	20.67	108.81	4.19	16766.56
SG-14	0173-95-0125	Methylene Chloride[B]	33.01	19.81	104.24	4.01	16062.61
SG-14	0173-95-0125	Tetrachloroethene[B]	4.57	2.74	14.42	0.55	2221.65
SG-14	0173-95-0125	Chlorobenzene	2.38	1.43	7.51	0.29	1157.23
SG-14	0173-95-0125	Ethylbenzene[B]	10.58	6.35	33.40	1.28	5145.97
SG-14	0173-95-0125	M-P-Xylene[B]	12.07	7.24	38.13	1.47	5875.16
SG-14	0173-95-0125	O-Xylene[B]	6.17	3.70	19.47	0.75	3000.08
SG-14	0173-95-0125	1-3-5-Trimethylbenzene	4.03	2.42	12.73	0.49	1961.09
SG-14	0173-95-0125	1-2-4-Trimethylbenzene	18.40	11.04	58.11	2.24	8954.84
SG-14	0173-95-0125	1-4-Dichlorobenzene	73.13	43.88	230.94	8.88	35584.78
SG-14	0173-95-0125	1-2-Dichlorobenzene	3.27	1.96	10.33	0.40	1591.43

DRAFT

Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-14	0173-95-0125	1-2-4-Trichlorobenzene	4.39	2.63	13.86	0.53	2136.42
SG-14	0173-95-0125	Chlorodifluoromethane	14.37	8.62	45.38	1.75	6992.62
SG-16	0173-95-0126	Chloromethane[B]	2.47	1.48	7.81	0.30	1203.16
SG-16	0173-95-0126	Methylene Chloride[B]	28.17	16.90	88.95	3.42	13705.87

CONTROL SAMPLING LOCATION

SG-17	0173-95-0127	Chloromethane[B]	2.86	1.72	9.03	0.35	1392.08
SG-17	0173-95-0127	Trichlorofluoromethane[B]	16.34	9.80	51.59	1.98	7948.80
SG-17	0173-95-0127	Methylene Chloride[B]	74.88	44.93	236.47	9.09	36437.55
SG-17	0173-95-0127	Toluene[B]	2.16	1.30	6.83	0.26	1051.83
SG-17	0173-95-0127	Tetrachloroethene[B]	12.62	7.57	39.86	1.53	6142.21
SG-17	0173-95-0127	1-4-Dichlorobenzene	10.05	6.03	31.73	1.22	4889.29
SG-17	0173-95-0128	Chloromethane[B]	2.55	1.53	8.07	0.31	1242.93
SG-17	0173-95-0128	Methylene Chloride[B]	46.03	27.62	145.35	5.59	22397.39
SG-17	0173-95-0128	Tetrachloroethene[B]	4.70	2.82	14.84	0.57	2286.99
SG-17	0173-95-0128	1-4-Dichlorobenzene	7.37	4.42	23.28	0.90	3587.41
SG-17	0173-95-0129	Chloromethane[B]	2.20	1.32	1.56	0.06	240.57
SG-17	0173-95-0129	Methylene Chloride[B]	29.16	17.50	20.71	0.80	3191.02
SG-17	0173-95-0129	1-4-Dichlorobenzene	4.59	2.76	3.26	0.13	502.69
SG-17	0173-95-0130	Chloromethane[B]	2.58	1.55	1.83	0.07	282.13
SG-17	0173-95-0130	Methylene Chloride[B]	40.66	24.39	28.87	1.11	4448.31
SG-17	0173-95-0130	1-4-Dichlorobenzene	4.48	2.69	3.18	0.12	489.97

DRAFT

Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
QA/QC SAMPLES: REPLICATES AND FIELD BLANKS							
SG-1	0173-95-0131	Dichlorodifluoromethane	507.50	304.50	360.36	13.86	55527.55
SG-1	0173-95-0131	Chloromethane[B]	36.58	21.95	25.97	1.00	4002.26
SG-1	0173-95-0131	Freon 114	368.84	221.30	261.90	10.07	40355.83
SG-1	0173-95-0131	Vinyl Chloride	257.38	154.43	182.75	7.03	28160.56
SG-1	0173-95-0131	Chloroethane	10.09	6.05	7.16	0.28	1103.93
SG-1	0173-95-0131	1-1-Dichloroethylene	8.48	5.09	6.02	0.23	927.54
SG-1	0173-95-0131	Methylene Chloride[B]	29.27	17.56	20.78	0.80	3202.05
SG-1	0173-95-0131	cis-1-2-dichloroethene	1120.37	672.22	795.53	30.60	122582.80
SG-1	0173-95-0131	trans-1-2-Dichloroethene	16.10	9.66	11.43	0.44	1761.87
SG-1	0173-95-0131	Chloroform	11.12	6.67	7.90	0.30	1216.61
SG-1	0173-95-0131	Benzene	130.24	78.14	92.48	3.56	14250.04
SG-1	0173-95-0131	Trichloroethene	27.32	16.39	19.40	0.75	2989.04
SG-1	0173-95-0131	Toluene[B]	34.23	20.54	24.31	0.93	3745.41
SG-1	0173-95-0131	Tetrachloroethene[B]	14.12	8.47	10.03	0.39	1544.98
SG-1	0173-95-0131	Chlorobenzene	51.00	30.60	36.21	1.39	5580.04
SG-1	0173-95-0131	Ethylbenzene[B]	348.03	208.82	247.12	9.50	38079.24
SG-1	0173-95-0131	M-P-Xylene[B]	913.01	547.81	648.29	24.93	99895.01
SG-1	0173-95-0131	O-Xylene[B]	171.71	103.03	121.93	4.69	18787.59
SG-1	0173-95-0131	1-3-5-Trimethylbenzene	845.45	507.27	600.32	23.09	92502.86
SG-1	0173-95-0131	1-2-4-Trimethylbenzene	546.22	327.73	387.85	14.92	59763.09
SG-1	0173-95-0131	1-3-Dichlorobenzene	96.54	57.93	68.55	2.64	10562.92
SG-1	0173-95-0131	1-4-Dichlorobenzene	20.36	12.22	14.46	0.56	2227.64
SG-1	0173-95-0131	1-2-Dichlorobenzene	20.36	12.22	14.46	0.56	2227.64
SG-1	0173-95-0131	1-2-4-Trichlorobenzene	59.70	35.82	42.39	1.63	6531.60
SG-1	0173-95-0131	Chlorodifluoromethane	2169.35	1301.61	1540.37	59.24	237354.79

DRAFT

Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-5	0173-95-0132	Dichlorodifluoromethane	9.59	5.76	30.29	1.17	4668.12
SG-5	0173-95-0132	Chloromethane[B]	2.55	1.53	8.07	0.31	1242.93
SG-5	0173-95-0132	Methylene Chloride[B]	25.11	15.07	79.29	3.05	12218.28
SG-5	0173-95-0132	cis-1-2-dichloroethene	10.09	6.06	31.88	1.23	4912.07
SG-5	0173-95-0132	Toluene[B]	8.72	5.23	27.54	1.06	4243.58
SG-5	0173-95-0132	Tetrachloroethene[B]	5.44	3.26	17.17	0.66	2646.38
SG-5	0173-95-0132	Ethylbenzene[B]	5.69	3.42	17.98	0.69	2770.91
SG-5	0173-95-0132	M-P-Xylene[B]	12.54	7.53	39.62	1.52	6104.33
SG-5	0173-95-0132	O-Xylene[B]	3.47	2.08	10.95	0.42	1687.55
SG-5	0173-95-0132	1-3-Dichlorobenzene	9.93	5.96	31.35	1.21	4831.43
SG-5	0173-95-0132	1-4-Dichlorobenzene	11.95	7.17	37.74	1.45	5815.07
SG-5	0173-95-0132	1-2-Dichlorobenzene	3.69	2.21	11.64	0.45	1793.61
SG-5	0173-95-0132	1-2-4-Trichlorobenzene	9.73	5.84	30.73	1.18	4735.93
SG-5	0173-95-0132	Chlorodifluoromethane	2.66	1.60	8.40	0.32	1294.31
FB	0173-95-0133	Trichlorofluoromethane	66.60	FB	FB	FB	FB
FB	0173-95-0133	Methylene Chloride	52.50	FB	FB	FB	FB
FB	0173-95-0133	Toluene	2.87	FB	FB	FB	FB
FB	0173-95-0133	Tetrachloroethene	3.76	FB	FB	FB	FB
FB	0173-95-0133	M-P-Xylene	6.76	FB	FB	FB	FB
FB	0173-95-0134	Chloromethane	2.33	FB	FB	FB	FB
FB	0173-95-0134	Methylene Chloride	39.46	FB	FB	FB	FB
FB	0173-95-0134	Ethylbenzene	18.35	FB	FB	FB	FB
FB	0173-95-0134	M-P-Xylene	97.51	FB	FB	FB	FB
FB	0173-95-0134	O-Xylene	19.80	FB	FB	FB	FB

DRAFT

Location	Sample ID	Compound Name	Compound Concentration in Flux Chamber	Concentration with 1 Day Correlation Factor (ug/m3)	Concentration with 4 Day Correlation Factor (ug/m3)	Compound Emanation Rate (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SAMPLING LOCATIONS OUTSIDE LANDFILL							
SG-8	0173-95-0121	Chloromethane[B]	2.42	1.45	1.72	0.07	264.63
SG-8	0173-95-0121	Methylene Chloride[B]	28.22	16.93	20.04	0.77	3088.08
SG-9	0173-95-0122	Chloromethane[B]	2.70	1.62	8.52	0.33	1312.54
SG-9	0173-95-0122	Trichlorofluoromethane[B]	2.89	1.73	9.12	0.35	1405.91
SG-9	0173-95-0122	1-1-Dichloroethylene	3.37	2.02	10.65	0.41	1641.05
SG-9	0173-95-0122	Methylene Chloride[B]	59.77	35.86	188.74	7.26	29083.18
SG-9	0173-95-0122	Tetrachloroethene[B]	9.47	5.68	29.90	1.15	4606.66
SG-9	0173-95-0122	Ethylbenzene[B]	2.87	1.72	9.06	0.35	1395.87
SG-9	0173-95-0122	M-P-Xylene[B]	13.06	7.84	41.24	1.59	6354.34
SG-9	0173-95-0122	O-Xylene[B]	2.44	1.46	7.71	0.30	1187.53

Notes:

[B] - Indicates this compound was detected in one or both of the field blanks.

FB - Field Blank

TA-73, LOS ALAMOS AIRPORT, MAIN LANDFILL
LONG TERM SAMPLING LOCATIONS
PRELIMINARY EMANATION RATES

DRAFT

LOCATION	COMPOUND	Emanation Rate for Sample #1 (ug/m2-min)	Emanation Rate for Sample #2 (ug/m2-min)	Emanation Rate for Sample #3 (ug/m2-min)	Emanation Rate for Sample #4 (ug/m2-min)	Average Emanation Rate for Compound for Location (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-2	Chloromethane[B]	0.15	0.15	0.13	0.13	0.14	560.89
SG-2	Methylene Chloride[B]	1.39	1.48	1.15	1.31	1.33	5338.44
SG-2	Toluene[B]	0.17	0.07	0.07	0.07	0.10	380.60
SG-2	Ethylbenzene[B]	0.22	0.11	0.08	0.08	0.12	490.78
SG-2	M-P-Xylene[B]	1.05	0.57	0.08	0.08	0.45	1782.82
SG-2	O-Xylene[B]	0.29	0.16	0.08	0.08	0.15	610.97
SG-3	Dichlorodifluoromethane	0.66	1.09	0.56	0.47	0.70	2784.40
SG-3	Chloromethane[B]	0.13	0.20	0.04	0.04	0.10	410.65
SG-3	Freon 114	1.50	2.41	1.27	0.98	1.54	6169.75
SG-3	Trichlorofluoromethane[B]	8.05	0.11	0.11	0.11	2.10	8393.27
SG-3	Methylene Chloride[B]	1.22	1.82	0.95	0.95	1.24	4947.82
SG-3	Toluene[B]	0.19	0.12	0.10	0.07	0.12	480.76
SG-3	Ethylbenzene[B]	0.10	0.08	0.10	0.08	0.09	360.57
SG-3	M-P-Xylene[B]	0.53	0.17	0.55	0.08	0.33	1332.11
SG-3	O-Xylene[B]	0.12	0.08	0.12	0.08	0.10	400.63
SG-3	Chlorodifluoromethane	0.84	1.11	0.64	0.07	0.67	2664.21
SG-4	ChloromethaneB	0.07	0.06	0.07	0.05	0.06	250.40
SG-4	Trichlorofluoromethane[B]	1.52	0.11	0.11	0.11	0.46	1852.93
SG-4	Methylene Chloride[B]	1.73	1.2	0.82	0.96	1.18	4717.46

DRAFT

LOCATION	COMPOUND	Emanation Rate for Sample #1 (ug/m2-min)	Emanation Rate for Sample #2 (ug/m2-min)	Emanation Rate for Sample #3 (ug/m2-min)	Emanation Rate for Sample #4 (ug/m2-min)	Average Emanation Rate for Compound for Location (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-4	1-1-1-Trichloroethane	0.13	0.1	0.1	0.1	0.11	430.68
SG-4	Toluene[B]	1.32	0.07	0.07	0.07	0.38	1532.42
SG-4	Tetrachloroethene[B]	0.32	0.13	0.13	0.13	0.18	711.12
SG-4	M-P-Xylene[B]	0.14	0.08	0.08	0.08	0.10	380.60
SG-4	1-2-4-Trimethylbenzene	0.16	0.09	0.09	0.09	0.11	430.68
SG-4	Chlorodifluoromethane	0.68	0.07	0.07	0.07	0.22	891.41
SG-6	Chloromethane[B]	0.08	0.07	0.06	0.06	0.07	270.43
SG-6	Trichlorofluoromethane[B]	1.63	0.11	0.11	0.11	0.49	1963.10
SG-6	Methylene Chloride[B]	1.01	1.13	0.91	0.92	0.99	3976.29
SG-6	Toluene[B]	0.07	0.07	0.07	0.07	0.07	280.44
SG-6	M-P-Xylene[B]	0.08	0.42	0.08	0.08	0.17	661.05
SG-6	O-Xylene[B]	0.08	0.11	0.08	0.08	0.09	350.55
SG-7	Chloromethane[B]	0.16	0.13	0.16	0.08	0.13	530.84
SG-7	Trichlorofluoromethane[B]	2.06	0.11	0.11	0.11	0.60	2393.78
SG-7	Methylene Chloride[B]	1.82	1.58	1.51	1.13	1.51	6049.56
SG-7	cis-1-2-dichloroethene	0.19	0.24	0.22	0.22	0.22	871.38
SG-7	Toluene[B]	0.09	0.07	0.07	0.11	0.09	340.54
SG-7	Ethylbenzene[B]	0.09	0.33	0.08	0.08	0.15	580.92
SG-7	M-P-Xylene[B]	0.47	1.64	0.08	0.09	0.57	2283.61
SG-7	O-Xylene[B]	0.13	0.46	0.08	0.08	0.19	751.19
SG-10	Dichlorodifluoromethane	0.1	0.09	0.09	0.14	0.11	420.67
SG-10	Chloromethane[B]	0.11	0.11	0.11	0.13	0.12	460.73
SG-10	Trichlorofluoromethane[B]	1.16	0.82	0.28	0.28	0.64	2544.02

DRAFT

LOCATION	COMPOUND	Emanation Rate for Sample #1 (ug/m2-min)	Emanation Rate for Sample #2 (ug/m2-min)	Emanation Rate for Sample #3 (ug/m2-min)	Emanation Rate for Sample #4 (ug/m2-min)	Average Emanation Rate for Compound for Location (ug/m2-min)	Emanation Rate Contribution to Landfill (ug/min)
SG-10	Methylene Chloride[B]	1.25	1.06	1.03	0.76	1.03	4106.49
SG-10	Toluene[B]	0.07	0.07	0.07	0.07	0.07	280.44
SG-10	Ethylbenzene[B]	0.08	0.16	0.08	0.08	0.10	400.63
SG-10	M-P-Xylene[B]	0.08	0.83	0.08	0.08	0.27	1071.69
SG-10	O-Xylene[B]	0.08	0.18	0.08	0.08	0.11	420.67
SG-13	Chloromethane[B]	0.11	0.12	0.1	0.08	0.10	410.65
SG-13	Trichlorofluoromethane[B]	3.74	0.11	0.11	0.11	1.02	4076.44
SG-13	Methylene Chloride[B]	1.41	1.28	0.99	0.91	1.15	4597.27
SG-13	Toluene[B]	0.23	0.11	0.07	0.07	0.12	480.76
SG-13	Tetrachloroethene[B]	0.15	0.13	0.13	0.13	0.14	540.86
SG-13	Ethylbenzene[B]	0.08	0.13	0.08	0.08	0.09	370.59
SG-13	M-P-Xylene[B]	0.09	0.69	0.08	0.08	0.24	941.49
SG-13	O-Xylene[B]	0.08	0.15	0.08	0.08	0.10	390.62

Note: B - indicates the compound was detected in one or both of the field blanks.

TA-73, LOS ALAMOS AIRPORT, MAIN LANDFILL
PRELIMINARY TOTAL LANDFILL EMANATION RATE

DRAFT

COMPOUND NAME	EMANATION RATE CONTRIBUTIONS FROM GRAB SAMPLES (ug/min)					EMANATION RATE CONTRIBUTIONS FROM LONG TERM SAMPLES (ug/min)						
	SG-1	SG-5	SG-11	SG-12	SG-14	SG-2	SG-3	SG-4	SG-6	SG-7	SG-10	SG-13
Dichlorodifluoromethane	52123.08	4287.05	34573.75	0	20649.24	0	2784.40	0	0	0	420.67	0
Chloromethane[B]	347.74	1640.67	2886.87	216.52	2207.45	560.89	410.65	250.40	270.43	530.84	460.73	410.65
Freon 114	31472.34	0	37241.93	2988.82	16766.56	0	6169.75	0	0	0	0	0
Vinyl Chloride	24911.27	0	7635.84	0	0	0	0	0	0	0	0	0
Chloroethane	935.21	0	1083.10	0	0	0	0	0	0	0	0	0
Methylene Chloride[B]	3786.57	17550.20	3860.10	0	16062.61	5338.44	4947.82	4717.46	3976.29	6049.56	4106.49	4597.27
cis-1-2-dichloroethene	89340.01	5271.02	39475.82	0	0	0	0	0	0	871.38	0	0
trans-1-2-Dichloroethene	1732.78	0	752.12	0	0	0	0	0	0	0	0	0
Chloroform	1304.30	0	1211.51	0	0	0	0	0	0	0	0	0
Benzene	12490.00	0	565.24	0	0	0	0	0	0	0	0	0
Trichloroethene	2683.79	0	1871.78	0	0	0	0	0	0	0	0	0
Toluene[B]	4148.27	4715.09	650.16	0	0	380.60	480.76	1532.42	280.44	340.54	280.44	480.76
Tetrachloroethene[B]	1616.84	2515.69	1422.82	0	2221.65	0	0	711.12	0	0	0	540.86
Chlorobenzene	8272.17	0	0	0	1157.23	0	0	0	0	0	0	0
Ethylbenzene[B]	41607.65	2812.58	5590.45	0	5145.97	490.78	360.57	0	0	580.92	400.63	370.59
M-P-Xylene[B]	108143.22	6646.02	10035.32	0	5875.16	1782.82	1332.11	380.60	661.05	2283.61	1071.69	941.49
O-Xylene[B]	24244.74	1958.39	3001.43	0	3000.08	610.97	400.63	0	350.55	751.19	420.67	390.62
1-3-5-Trimethylbenzene	42249.90	0	7431.41	0	1961.09	0	0	0	0	0	0	0
1-2-4-Trimethylbenzene	39859.38	0	3528.62	0	8954.84	0	0	430.68	0	0	0	0
1-3-Dichlorobenzene	9672.07	4194.95	0	0	0	0	0	0	0	0	0	0
1-4-Dichlorobenzene	53641.81	6364.76	19471.40	0	35584.78	0	0	0	0	0	0	0
1-2-Dichlorobenzene	2138.08	0	0	0	1591.43	0	0	0	0	0	0	0
1-2-4-Trichlorobenzene	3767.00	4664.52	0	0	2136.42	0	0	0	0	0	0	0
Chlorodifluoromethane	218504.71	1479.21	58784.13	0	6992.62	0	2664.21	891.41	0	0	0	0
Trichlorofluoromethane[B]	0	0	2414.33	0	0	0	8393.27	1852.93	1963.10	2393.78	2544.02	4076.44
1-1-Dichloroethylene	0	0	331.56	0	0	0	0	0	0	0	0	0
1-1-1-Trichloroethane	0	0	0	0	0	0	0	430.68	0	0	0	0

Note: B - Indicates the compound was detected in one or both fo the field blanks.

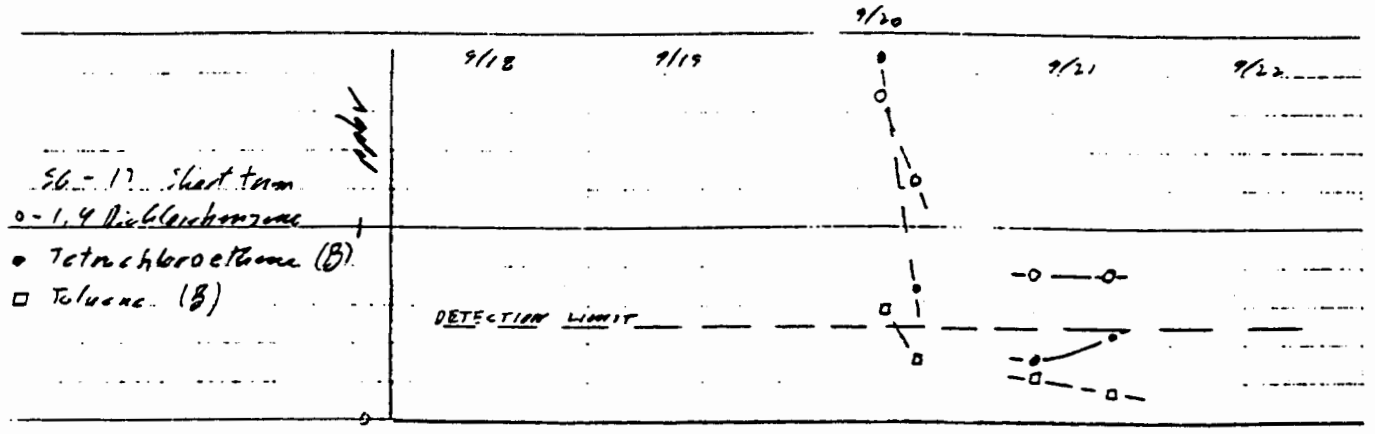
DRAFT

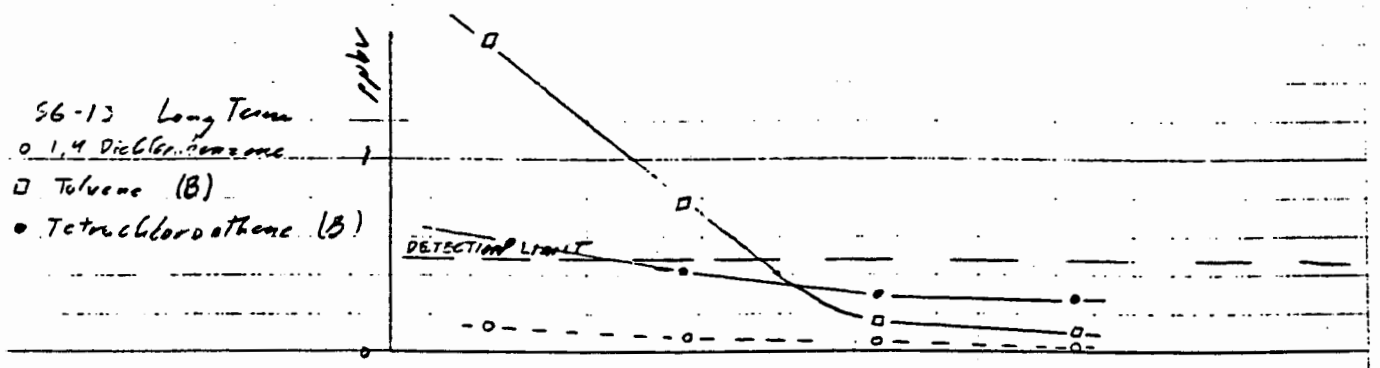
COMPOUND NAME	Total Compound Emanation Rate for Landfill (ug/min)
Dichlorodifluoromethane	114838.19
Chloromethane[B]	10193.84
Freon 114	94639.40
Vinyl Chloride	32547.11
Chloroethane	2018.31
Methylene Chloride[B]	74992.81
cis-1-2-dichloroethene	134958.23
trans-1-2-Dichloroethene	2484.90
Chloroform	2515.81
Benzene	13055.24
Trichloroethene	4555.57
Toluene[B]	13289.48
Tetrachloroethene[B]	9028.98
Chlorobenzene	9429.40
Ethylbenzene[B]	57360.14
M-P-Xylene[B]	139153.09
O-Xylene[B]	35129.27
1-3-5-Trimethylbenzene	51642.40
1-2-4-Trimethylbenzene	52773.52
1-3-Dichlorobenzene	13867.02
1-4-Dichlorobenzene	115062.75
1-2-Dichlorobenzene	3729.51
1-2-4-Trichlorobenzene	10567.94
Chlorodifluoromethane	289316.29
Trichlorofluoromethane[B]	23637.87
1-1-Dichloroethylene	331.56
1-1-1-Trichloroethane	430.68

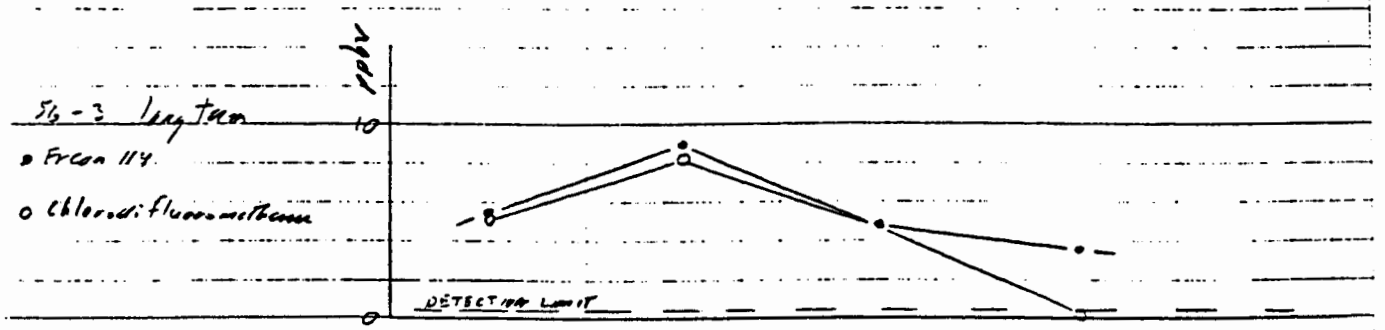
Note: B - Indicates the com

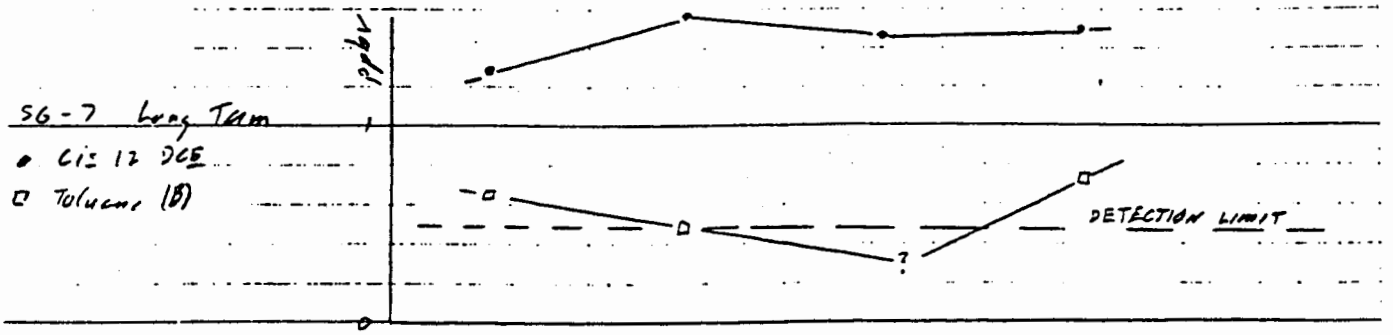
Golder Associates

SUBJECT MLF Soil Gas Results		
Job No.	Made by CCW	Date 95/10/19
Ref.	Checked	Sheet of
	Reviewed	









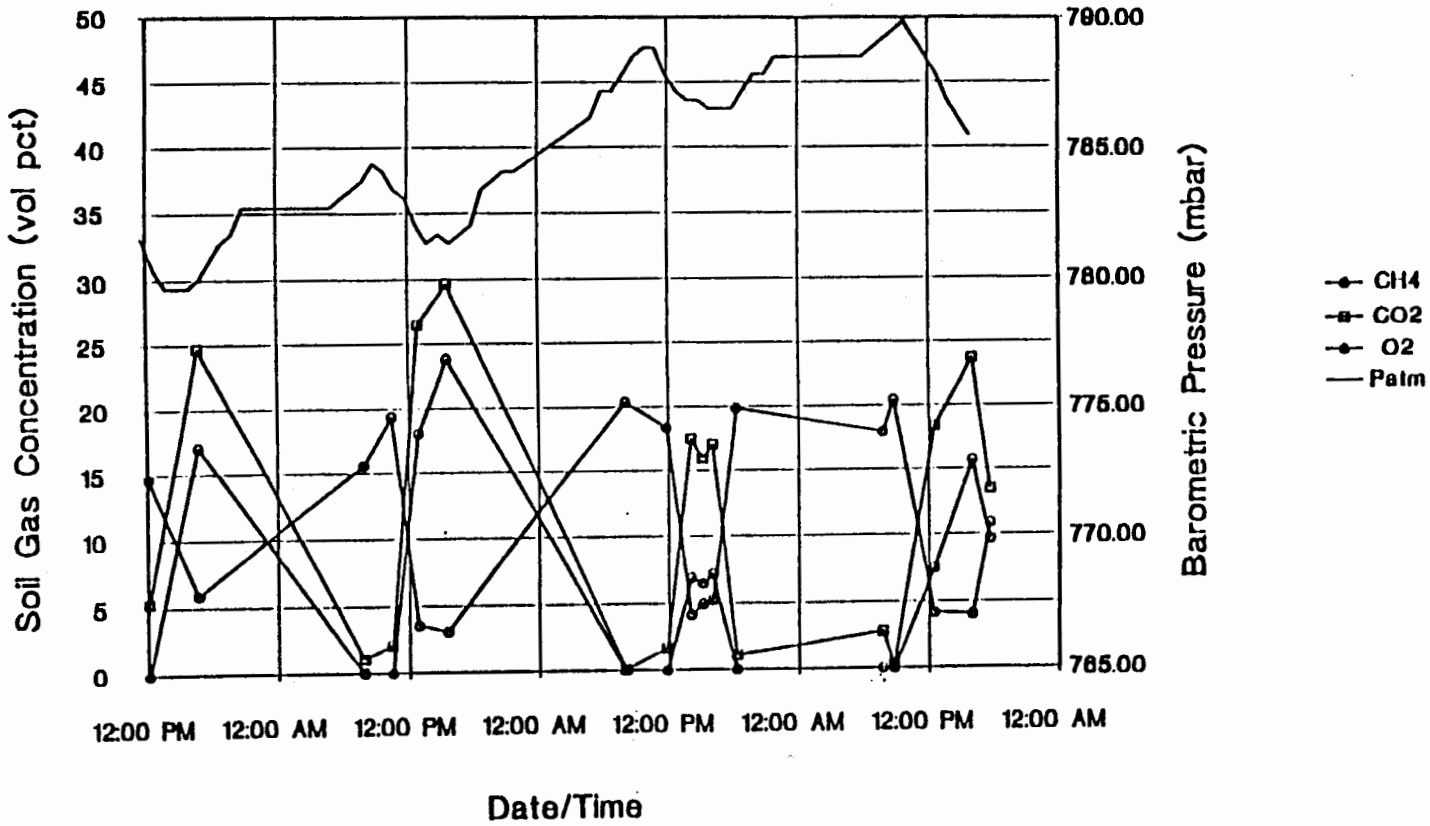
Monitoring Loc. #2 (S6-5)

DANIEL B. STEPHENS & ASSOCIATES, INC.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

Vadose Zone Transport

Temporal Changes in Shallow Soil Gas Composition Near a Landfill in Response Barometric Pumping (soil gas sampled at 5-cm depth)



From a different time period than when samples were collected