

Appendix C

Air Monitoring Data

Tables

APPENDIX C

TABLE 1

VOC and Carbonyl Compounds Monitored - See Section III.A.1

compound name	CAS #	annual average	state standard	averaging time	%Non-Detect	ESE MDL	Radian MDL
		1993-95 max.				7/93 - 3/95	8/95 - 12/95
acetaldehyde	75-07-0	4.65	1800	8hr	0	c	c
acetone	67-64-1	6.26	178000	8hr	0.53	c	c
acetylene	74-86-2	4.94			4.65		0.13
acrolein	107-02-8	0.11	2.5	8hr	88.89	c	c
benzaldehyde	100-52-7	0.32			61.38	c	c
benzene	71-43-2	4.05	0.12	annual average	11.52	0.10	0.77
benzyl chloride	100-44-7	*			100	1.50	
bromochloromethane	74-97-5	*			100		0.37
bromodichloromethane	75-27-4	*	42	24hr	100	0.20	0.60
bromoform	75-25-2	*	0.01	annual average	100	1.45	0.83
1,3-butadiene	106-99-0	0.95	0.035	annual average	41.01	0.15	0.33
butyr/isobutyraldehyde	123-72-8	0.65			43.39	c	c
carbon tetrachloride	56-23-5	0.72	0.067	annual average	14.75	0.19	0.44
3-chloro-1-propene	107-05-1	*			98.85	0.09	
chlorobenzene	108-90-7	*	833	annual average	99.54	0.14	0.28
chlorodifluoromethane	75-45-6	8.02			2.87	0.32	
chloroethane	75-00-3	0.17			93.09	0.11	0.47
chloroform	67-66-3	0.22	0.043	annual average	89.86	0.24	0.29
chloroprene	126-99-8	*	0.01	annual average	100	0.18	0.18
crotonaldehyde	123-73-9	0.43			45.5	c	c
dibromochloromethane	124-48-1	*	39	24hr	100	0.43	0.43
1,2-dibromoethane	106-93-4	*			100	0.69	
1,2-dichlorobenzene	95-50-1	*	3000	8hr	100	0.12	0.48
1,3-dichlorobenzene	541-73-1	*			100	0.24	0.42
1,4-dichlorobenzene	106-46-7	*			99.54	0.24	0.36
dichlorodifluoromethane	75-71-8	5.60	118	24hr	1.15	0.35	
1,1-dichloroethane	75-34-3	*	19300	24hr	100	0.24	0.24
c-1,2-dichloroethylene	156-59-2	*			100	0.24	
t-1,2-dichloroethylene	156-60-5	*			100	0.36	0.89
c-1,3-dichloropropene	10061-01-5	*			100	0.27	0.23
t-1,3-dichloropropene	10061-02-6	*			100	0.32	0.36
2,5-dimethylbenzaldehyde	5779-94-2	0.19			91.53	c	c
ethylbenzene	100-41-4	1.81	43500	8hr	26.73	0.35	0.35
ethylene dichloride	107-06-2	*	0.038	annual average	100	0.24	1.05
formaldehyde	50-00-0	10.16	0.08	annual average	0	c	c
freon 113	76-13-1	67.16	181000	24hr	15.52	1.09	
freon 114	76-14-2	*			100	0.63	
heptane	142-82-5	1.52	16000	8hr	20.69	0.16	
hexachlorobutadiene	87-68-3	*	0.045	annual average	100	0.53	

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VOC and Carbonyl Compounds Monitored - See Section III.A.1

compound name	CAS #	annual average	state standard	averaging time	%Non-Detect	ESE MDL	Radian MDL
		1993-95 max.				7/93 - 3/95	8/95 - 12/95
hexanaldehyde	66-25-1	0.27			76.72	c	c
hexane	110-54-3	4.46	4290	24hr	12.64	0.18	
isovaleraldehyde	590-86-3	0.17			94.71	c	c
methyl bromide	74-83-9	*	0.01	annual average	98.62	0.27	0.70
methyl chloride	74-87-3	1.39	0.01	annual average	7.37	0.21	0.81
methylene chloride	75-09-2	8.41	2	annual average	17.51	0.24	0.56
o-methyl styrene	98-83-9	0.14			88.51	0.04	
octane	111-65-9	0.44			64.98	0.28	0.23
pentane	109-66-0	5.72			6.91	0.06	
propionaldehyde	132-38-6	0.87			21.16	c	c
propylene	115-07-01	4.59			6.91	0.07	0.15
propylene dichloride	78-87-5	*	0.01	annual average	99.54	0.18	0.18
styrene	100-42-5	0.55	512	annual average	69.12	0.13	0.34
1,1,2,2-tetrachloroethane	79-34-5	*	0.017	annual average	100	1.99	1.10
tetrachloroethylene	127-18-4	0.62	0.41	annual average	79.72	0.20	0.27
m-tolualdehyde	629-23-5	*			100	c	c
o-tolualdehyde	529-20-4	*			100	c	c
p-tolualdehyde	104-87-0	*			100	c	c
tolualdehydes		1.18			31.71		c
toluene	108-88-3	11.87	8930	24hr	1.38	0.26	0.15
1,2,4-trichlorobenzene	120-82-1	*			98.85	0.45	
1,1,1-trichloroethane	71-55-6	7.19	190000	8hr	15.21	0.11	1.80
1,1,2-trichloroethane	79-00-5	*	0.061	annual average	99.54	0.33	0.27
trichloroethylene	79-01-6	0.32	0.42	annual average	94.93	0.27	0.27
trichlorofluoromethane	75-69-4	1.81	133500	24hr	0.57	0.39	
1,2,4-trimethylbenzene	95-63-6	2.80	0.15	annual average	35.63	0.49	
1,3,5-trimethylbenzene	108-67-8	1.05			47.13	0.15	
valeraldehyde	110-62-3	0.13			76.19	c	c
vinyl chloride	75-01-4	*	0.2	annual average	100	0.18	0.28
vinylidene chloride	75-35-4	*			100	0.28	
m,p-xylene	108-38-3	5.81	See Xylene, total		13.82	0.43	0.48
o-xylene	195-47-6	2.23	See Xylene, total		20.74	0.13	0.26
xylene, total	1330-20-7	8.04	1040	annual average	n/a		

c - Denotes carbonyl compound. Detection limit (MDL) for carbonyls is a function of sample volume.

*- Compound concentration was below detection limit (MDL) in at least 95% of the samples collected.

All units are ug/M3

Table 2 (See Section III.B.1)

VOC Summary Statistics, 1993-1995

Laboratories: ESE from 1/93 to 3/95 and Radian from 8/95 to 12/95

Units: ug/M3

NND/N: Number of Non-Detects / Number of Samples

All Non-Detects = 1/2 MDL (except for high mean and low mean)

High Mean: All Non-Detects = MDL

Low Mean: All Non-Detects = 0

1,1,1-trichloroethane		state standard 190000			8hr			CAS #	71-55-6	
		ESE MDL: 0.11			Radian MDL: 1.80					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	1.20	1.09	1 / 14	1.21	1.20	0.05	3.27	3.22	0.71
Burlington	1994	1.04	1.04	1 / 31	1.05	1.04	0.05	1.58	1.53	0.34
Burlington	1995	1.69	0.90	8 / 18	2.09	1.29	0.82	9.49	8.68	2.06
Rutland	1993	1.03	1.04	0 / 13	1.03	1.03	0.76	1.36	0.60	0.17
Rutland	1994	1.15	1.04	0 / 30	1.15	1.15	0.65	4.20	3.55	0.67
Rutland	1995	0.98	0.90	9 / 17	1.46	0.50	0.71	2.51	1.80	0.41
Underhill	1994	0.77	0.71	0 / 13	0.77	0.77	0.60	1.75	1.15	0.30
Underhill	1995	1.15	0.90	9 / 18	1.60	0.70	0.65	3.71	3.06	0.85
Waterbury	1993	1.08	0.95	0 / 14	1.08	1.08	0.76	2.40	1.64	0.41
Waterbury	1994	1.36	1.15	0 / 18	1.36	1.36	0.82	3.76	2.95	0.67
Winooski	1994	7.19	2.56	0 / 13	7.19	7.19	0.82	28.16	27.34	9.95
Winooski	1995	5.22	1.77	5 / 18	5.47	4.97	0.87	31.81	30.94	7.97

1,2,4-trimethylbenzene		state standard 0.15			annual average			CAS #	95-63-6	
		ESE MDL: 0.49			Radian MDL:					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	2.15	2.41	1 / 14	2.17	2.14	0.25	3.83	3.59	0.98
Burlington	1994	2.80	2.75	0 / 31	2.80	2.80	0.59	5.95	5.36	1.20
Burlington	1995	2.11	2.02	0 / 7	2.11	2.11	0.59	4.13	3.54	1.11
Rutland	1993	1.20	1.03	0 / 13	1.20	1.20	0.64	2.56	1.92	0.56
Rutland	1994	2.72	1.70	4 / 30	2.76	2.69	0.25	13.27	13.03	2.98
Rutland	1995	1.56	1.43	1 / 7	1.59	1.52	0.25	3.10	2.85	0.95
Underhill	1994	0.30	0.25	12 / 13	0.53	0.08	0.25	0.98	0.74	0.20
Underhill	1995	0.25	0.25	7 / 7	0.49	0.00	0.25	0.25	0.00	0.00
Waterbury	1993	0.37	0.25	10 / 14	0.55	0.20	0.25	1.13	0.88	0.25
Waterbury	1994	0.40	0.25	14 / 18	0.59	0.20	0.25	2.06	1.82	0.43
Winooski	1994	0.44	0.25	8 / 13	0.59	0.29	0.25	1.43	1.18	0.34
Winooski	1995	0.33	0.25	5 / 7	0.51	0.15	0.25	0.59	0.34	0.15

1,3,5-trimethylbenzene											
		state standard none				Radian MDL:				CAS #	108-67-8
		ESE MDL: 0.15									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.88	0.76	1 / 14	0.88	0.87	0.07	2.06	1.99	0.58	
Burlington	1994	0.93	0.84	0 / 31	0.93	0.93	0.34	2.41	2.06	0.43	
Burlington	1995	0.80	0.74	1 / 7	0.81	0.79	0.07	1.67	1.60	0.53	
Rutland	1993	0.19	0.07	10 / 13	0.25	0.13	0.07	0.74	0.66	0.23	
Rutland	1994	1.05	0.54	3 / 30	1.06	1.04	0.07	4.23	4.15	1.07	
Rutland	1995	0.94	0.59	2 / 7	0.96	0.92	0.07	2.61	2.53	0.94	
Underhill	1994	0.12	0.07	12 / 13	0.19	0.06	0.07	0.74	0.66	0.18	
Underhill	1995	0.07	0.07	7 / 7	0.15	0.00	0.07	0.07	0.00	0.00	
Waterbury	1993	0.18	0.07	11 / 14	0.24	0.12	0.07	0.88	0.81	0.23	
Waterbury	1994	0.19	0.07	16 / 18	0.25	0.12	0.07	1.92	1.84	0.43	
Winooski	1994	0.16	0.07	12 / 13	0.22	0.09	0.07	1.13	1.06	0.29	
Winooski	1995	0.07	0.07	7 / 7	0.15	0.00	0.07	0.07	0.00	0.00	

1,3-butadiene										
		state standard 0.035			annual average				CAS #	106-99-0
		ESE MDL: 0.15			Radian MDL: 0.33					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	0.64	0.67	2 / 14	0.65	0.63	0.08	1.39	1.32	0.37
Burlington	1994	0.95	0.84	0 / 31	0.95	0.95	0.44	2.04	1.59	0.38
Burlington	1995	0.47	0.28	9 / 18	0.55	0.39	0.17	1.24	1.07	0.37
Rutland	1993	0.32	0.27	5 / 13	0.35	0.29	0.08	0.82	0.74	0.27
Rutland	1994	0.84	0.49	0 / 30	0.84	0.84	0.15	4.03	3.87	0.88
Rutland	1995	0.34	0.17	9 / 17	0.43	0.25	0.17	0.88	0.72	0.23
Underhill	1994	0.11	0.08	10 / 13	0.17	0.05	0.08	0.35	0.28	0.08
Underhill	1995	0.13	0.17	18 / 18	0.26	0.00	0.08	0.17	0.09	0.04
Waterbury	1993	0.17	0.08	10 / 14	0.23	0.12	0.08	0.71	0.63	0.18
Waterbury	1994	0.18	0.12	9 / 18	0.22	0.14	0.08	0.80	0.72	0.17
Winooski	1994	0.18	0.18	6 / 13	0.22	0.14	0.08	0.53	0.45	0.13
Winooski	1995	0.20	0.17	11 / 18	0.30	0.10	0.15	0.35	0.20	0.07

a-methyl styrene											
		state standard none				Radian MDL:				CAS #	98-83-9
		ESE MDL: 0.04									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.12	0.02	12 / 14	0.14	0.10	0.02	0.85	0.83	0.26	
Burlington	1994	0.14	0.02	22 / 31	0.15	0.12	0.02	0.72	0.70	0.21	
Burlington	1995	0.02	0.02	7 / 7	0.04	0.00	0.02	0.02	0.00	0.00	
Rutland	1993	0.09	0.02	11 / 13	0.10	0.07	0.02	0.64	0.62	0.18	
Rutland	1994	0.07	0.02	26 / 30	0.09	0.05	0.02	0.51	0.49	0.13	
Rutland	1995	0.02	0.02	7 / 7	0.04	0.00	0.02	0.02	0.00	0.00	
Underhill	1994	0.08	0.02	12 / 13	0.10	0.06	0.02	0.77	0.75	0.21	
Underhill	1995	0.02	0.02	7 / 7	0.04	0.00	0.02	0.02	0.00	0.00	
Waterbury	1993	0.04	0.02	13 / 14	0.06	0.02	0.02	0.26	0.23	0.06	
Waterbury	1994	0.02	0.02	18 / 18	0.04	0.00	0.02	0.02	0.00	0.00	
Winooski	1994	0.05	0.02	12 / 13	0.07	0.03	0.02	0.34	0.32	0.09	
Winooski	1995	0.02	0.02	7 / 7	0.04	0.00	0.02	0.02	0.00	0.00	

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acetylene											
		state standard none				Radian MDL: 0.13			CAS #	74-86-2	
		ESE MDL:									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1995	4.94	4.44	0 / 11	4.94	4.94	2.68	10.60	7.91	2.31	
Rutland	1995	3.95	3.08	1 / 10	3.95	3.94	0.06	9.50	9.44	2.94	
Underhill	1995	0.59	0.70	1 / 11	0.60	0.59	0.06	0.87	0.81	0.25	
Winooski	1995	2.36	1.30	0 / 11	2.36	2.36	0.73	8.25	7.52	2.49	

benzene										
		state standard 0.12			annual average			CAS #	71-43-2	
		ESE MDL: 0.10			Radian MDL: 0.77					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	2.83	2.88	1 / 14	2.83	2.83	0.05	4.73	4.68	1.18
Burlington	1994	4.05	3.61	0 / 31	4.05	4.05	1.79	8.88	7.09	1.66
Burlington	1995	2.62	2.38	0 / 18	2.62	2.62	0.89	4.73	3.83	1.24
Rutland	1993	1.76	1.37	0 / 13	1.76	1.76	1.09	3.64	2.56	0.78
Rutland	1994	3.48	2.20	0 / 30	3.48	3.48	1.21	15.40	14.19	3.17
Rutland	1995	1.74	1.34	4 / 17	1.83	1.65	0.38	3.96	3.58	1.12
Underhill	1994	0.56	0.48	0 / 13	0.56	0.56	0.19	1.66	1.47	0.40
Underhill	1995	0.54	0.38	11 / 18	0.77	0.31	0.38	0.99	0.61	0.21
Waterbury	1993	0.94	0.65	0 / 14	0.94	0.94	0.38	3.00	2.62	0.71
Waterbury	1994	1.19	0.88	0 / 18	1.19	1.19	0.48	4.35	3.87	0.89
Winooski	1994	0.97	0.83	0 / 13	0.97	0.97	0.45	2.43	1.98	0.52
Winooski	1995	0.94	0.78	9 / 18	1.13	0.75	0.38	2.01	1.63	0.60

carbon tetrachloride										
		state standard 0.067			annual average			CAS #	56-23-5	
		ESE MDL: 0.19			Radian MDL: 0.44					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	0.49	0.63	5 / 14	0.53	0.46	0.09	0.82	0.72	0.32
Burlington	1994	0.71	0.69	0 / 31	0.71	0.71	0.44	0.94	0.50	0.10
Burlington	1995	0.52	0.50	4 / 18	0.57	0.47	0.22	0.88	0.66	0.22
Rutland	1993	0.52	0.69	4 / 13	0.55	0.49	0.09	0.82	0.72	0.30
Rutland	1994	0.72	0.75	1 / 30	0.72	0.72	0.09	0.94	0.85	0.15
Rutland	1995	0.54	0.50	5 / 17	0.60	0.47	0.22	1.20	0.98	0.27
Underhill	1994	0.70	0.69	0 / 13	0.70	0.70	0.63	0.82	0.19	0.07
Underhill	1995	0.51	0.44	5 / 18	0.57	0.45	0.22	1.07	0.85	0.26
Waterbury	1993	0.48	0.60	5 / 14	0.52	0.45	0.09	0.82	0.72	0.31
Waterbury	1994	0.69	0.69	1 / 18	0.69	0.68	0.09	0.94	0.85	0.18
Winooski	1994	0.71	0.69	0 / 13	0.71	0.71	0.63	0.88	0.25	0.08
Winooski	1995	0.62	0.57	2 / 18	0.64	0.59	0.22	1.20	0.98	0.26

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chlorodifluoromethane		state standard none			Radian MDL:			CAS #	75-45-6		
		ESE MDL: 0.32									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.72	0.80	1 / 14	1.74	1.71	0.16	10.05	9.89	2.54	
Burlington	1994	3.92	1.63	0 / 31	3.92	3.92	0.53	26.99	26.46	5.37	
Burlington	1995	3.98	1.10	1 / 7	4.00	3.96	0.16	21.08	20.92	7.60	
Rutland	1993	0.95	0.92	0 / 13	0.95	0.95	0.42	2.26	1.84	0.47	
Rutland	1994	3.53	1.38	1 / 30	3.53	3.52	0.16	24.65	24.49	5.70	
Rutland	1995	2.97	0.88	1 / 7	2.99	2.95	0.16	10.65	10.49	3.90	
Underhill	1994	2.56	0.67	0 / 13	2.56	2.56	0.46	15.67	15.21	4.41	
Underhill	1995	2.71	1.70	0 / 7	2.71	2.71	0.57	4.95	4.39	2.04	
Waterbury	1993	3.61	0.83	1 / 14	3.62	3.60	0.16	33.00	32.84	8.57	
Waterbury	1994	8.02	1.11	0 / 18	8.02	8.02	0.57	116.0	115.45	27.00	
Winooski	1994	4.39	1.80	0 / 13	4.39	4.39	0.60	22.18	21.58	6.28	
Winooski	1995	2.16	1.34	0 / 7	2.16	2.16	0.57	4.10	3.54	1.62	

chloroethane		state standard none			Radian MDL: 0.47			CAS #	75-00-3		
		ESE MDL: 0.11									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.05	0.05	14 / 14	0.11	0.00	0.05	0.05	0.00	0.00	
Burlington	1994	0.07	0.05	27 / 31	0.12	0.02	0.05	0.24	0.18	0.05	
Burlington	1995	0.17	0.24	18 / 18	0.33	0.00	0.05	0.24	0.18	0.09	
Rutland	1993	0.07	0.05	12 / 13	0.12	0.02	0.05	0.24	0.18	0.05	
Rutland	1994	0.08	0.05	24 / 30	0.12	0.04	0.05	0.26	0.21	0.06	
Rutland	1995	0.17	0.24	16 / 17	0.33	0.01	0.05	0.24	0.18	0.09	
Underhill	1994	0.07	0.05	11 / 13	0.11	0.02	0.05	0.18	0.13	0.04	
Underhill	1995	0.17	0.24	18 / 18	0.33	0.00	0.05	0.24	0.18	0.09	
Waterbury	1993	0.07	0.05	13 / 14	0.12	0.02	0.05	0.29	0.24	0.06	
Waterbury	1994	0.05	0.05	18 / 18	0.11	0.00	0.05	0.05	0.00	0.00	
Winooski	1994	0.05	0.05	13 / 13	0.11	0.00	0.05	0.05	0.00	0.00	
Winooski	1995	0.17	0.24	18 / 18	0.33	0.00	0.05	0.24	0.18	0.09	

chloroform		state standard 0.043			annual average			CAS #	67-66-3		
		ESE MDL: 0.24			Radian MDL: 0.29						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.13	0.12	13 / 14	0.25	0.02	0.12	0.29	0.17	0.05	
Burlington	1994	0.18	0.12	27 / 31	0.28	0.07	0.12	0.78	0.66	0.17	
Burlington	1995	0.22	0.15	17 / 18	0.35	0.09	0.12	1.61	1.49	0.35	
Rutland	1993	0.14	0.12	12 / 13	0.25	0.02	0.12	0.29	0.17	0.05	
Rutland	1994	0.17	0.12	23 / 30	0.26	0.07	0.12	0.44	0.32	0.09	
Rutland	1995	0.15	0.15	16 / 17	0.28	0.02	0.12	0.29	0.17	0.04	
Underhill	1994	0.15	0.12	12 / 13	0.27	0.04	0.12	0.54	0.42	0.12	
Underhill	1995	0.15	0.15	17 / 18	0.28	0.02	0.12	0.29	0.17	0.04	
Waterbury	1993	0.14	0.12	13 / 14	0.25	0.02	0.12	0.34	0.22	0.06	
Waterbury	1994	0.16	0.12	17 / 18	0.27	0.04	0.12	0.73	0.61	0.14	
Winooski	1994	0.20	0.12	10 / 13	0.29	0.10	0.12	0.78	0.66	0.18	
Winooski	1995	0.14	0.15	18 / 18	0.27	0.00	0.12	0.15	0.02	0.01	

Table 2, Page 4

dichlorodifluoromethane				state standard 118		24hr		CAS #		75-71-8	
				ESE MDL: 0.35		Radian MDL:					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	3.11	2.67	1 / 14	3.12	3.09	0.17	6.28	6.11	1.39	
Burlington	1994	3.06	2.87	0 / 31	3.06	3.06	2.27	6.28	4.01	0.73	
Burlington	1995	3.41	3.21	0 / 7	3.41	3.41	2.18	5.93	3.76	1.19	
Rutland	1993	2.76	2.57	0 / 13	2.76	2.76	2.08	3.71	1.63	0.50	
Rutland	1994	3.03	2.87	0 / 30	3.03	3.03	2.27	4.75	2.47	0.67	
Rutland	1995	5.60	2.62	0 / 7	5.60	5.60	2.13	20.03	17.90	6.48	
Underhill	1994	2.37	2.37	0 / 13	2.37	2.37	1.43	2.82	1.38	0.34	
Underhill	1995	2.46	2.47	0 / 7	2.46	2.46	2.08	2.77	0.69	0.27	
Waterbury	1993	2.42	2.60	0 / 14	2.42	2.42	0.84	3.41	2.57	0.59	
Waterbury	1994	2.63	2.65	0 / 18	2.63	2.63	0.59	3.41	2.82	0.63	
Winooski	1994	3.25	2.52	1 / 13	3.27	3.24	0.17	14.39	14.22	3.42	
Winooski	1995	2.47	2.57	0 / 7	2.47	2.47	1.88	3.07	1.19	0.41	

ethylbenzene				state standard 43500		8hr		CAS #		100-41-4	
				ESE MDL: 0.35		Radian MDL: 0.35					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.24	1.24	1 / 14	1.25	1.23	0.17	2.13	1.95	0.54	
Burlington	1994	1.54	1.56	0 / 31	1.54	1.54	0.56	2.78	2.21	0.54	
Burlington	1995	1.21	1.09	0 / 18	1.21	1.21	0.52	2.30	1.78	0.59	
Rutland	1993	1.11	0.96	1 / 13	1.13	1.10	0.17	2.34	2.17	0.74	
Rutland	1994	1.46	0.93	1 / 30	1.46	1.45	0.17	6.43	6.25	1.40	
Rutland	1995	0.76	0.61	3 / 17	0.79	0.73	0.17	2.04	1.87	0.52	
Underhill	1994	0.25	0.17	11 / 13	0.39	0.10	0.17	0.91	0.74	0.21	
Underhill	1995	1.81	0.17	11 / 18	1.92	1.71	0.17	8.55	8.38	2.69	
Waterbury	1993	0.27	0.17	10 / 14	0.39	0.14	0.17	0.87	0.69	0.19	
Waterbury	1994	0.30	0.17	12 / 18	0.41	0.18	0.17	1.13	0.96	0.25	
Winooski	1994	0.52	0.43	2 / 13	0.55	0.49	0.17	1.00	0.83	0.26	
Winooski	1995	0.50	0.48	6 / 18	0.56	0.44	0.17	2.30	2.13	0.48	

freon 113				state standard 181000		24hr		CAS #		76-13-1	
				ESE MDL: 1.09		Radian MDL:					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.77	1.34	4 / 14	1.93	1.62	0.54	6.94	6.39	1.67	
Burlington	1994	3.82	1.42	4 / 31	3.89	3.75	0.54	34.93	34.38	6.44	
Burlington	1995	1.50	1.09	2 / 7	1.66	1.35	0.54	4.09	3.55	1.24	
Rutland	1993	67.16	61.50	0 / 13	67.16	67.16	41.03	118.6	77.63	21.08	
Rutland	1994	44.15	42.57	0 / 30	44.15	44.15	1.34	71.28	69.94	18.54	
Rutland	1995	29.50	27.07	0 / 7	29.50	29.50	19.89	52.31	32.42	10.63	
Underhill	1994	1.39	1.09	4 / 13	1.56	1.23	0.54	2.76	2.21	0.84	
Underhill	1995	1.35	1.59	2 / 7	1.50	1.19	0.54	2.09	1.55	0.61	
Waterbury	1993	2.89	1.71	5 / 14	3.09	2.70	0.54	15.96	15.42	4.17	
Waterbury	1994	3.98	1.63	4 / 18	4.10	3.86	0.54	36.10	35.55	8.32	
Winooski	1994	3.40	1.84	2 / 13	3.48	3.32	0.54	18.22	17.67	4.74	
Winooski	1995	2.14	1.75	0 / 7	2.14	2.14	1.09	3.59	2.51	0.90	

Table 2, Page 5

heptane		state standard 16000 ESE MDL: 0.16			8hr Radian MDL:			CAS #	142-82-5		
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.68	0.61	1 / 14	0.69	0.68	0.08	1.43	1.35	0.34	
Burlington	1994	1.27	1.23	0 / 31	1.27	1.27	0.37	2.66	2.30	0.54	
Burlington	1995	1.02	1.11	1 / 7	1.03	1.01	0.08	1.60	1.52	0.49	
Rutland	1993	0.38	0.29	5 / 13	0.42	0.35	0.08	0.94	0.86	0.31	
Rutland	1994	1.52	0.96	1 / 30	1.52	1.52	0.08	9.92	9.84	1.88	
Rutland	1995	0.93	0.94	0 / 7	0.93	0.93	0.45	1.80	1.35	0.44	
Underhill	1994	0.16	0.08	10 / 13	0.22	0.09	0.08	0.57	0.49	0.16	
Underhill	1995	0.25	0.29	1 / 7	0.26	0.24	0.08	0.33	0.25	0.09	
Waterbury	1993	0.18	0.08	10 / 14	0.24	0.13	0.08	0.66	0.57	0.19	
Waterbury	1994	0.39	0.31	3 / 18	0.40	0.37	0.08	1.27	1.19	0.30	
Winooski	1994	0.54	0.37	3 / 13	0.56	0.52	0.08	2.83	2.75	0.72	
Winooski	1995	0.40	0.37	1 / 7	0.41	0.39	0.08	0.66	0.57	0.19	

hexane		state standard 4290 ESE MDL: 0.18			24hr Radian MDL:			CAS #	110-54-3		
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.45	1.29	1 / 14	1.45	1.44	0.09	2.68	2.59	0.66	
Burlington	1994	2.26	2.04	0 / 31	2.26	2.26	0.70	7.40	6.70	1.36	
Burlington	1995	3.60	2.11	0 / 7	3.60	3.60	1.30	14.31	13.01	4.74	
Rutland	1993	1.22	1.27	0 / 13	1.22	1.22	0.49	2.11	1.62	0.52	
Rutland	1994	4.46	1.66	0 / 30	4.46	4.46	0.56	53.58	53.01	9.63	
Rutland	1995	1.57	1.59	0 / 7	1.57	1.57	0.88	2.86	1.97	0.68	
Underhill	1994	0.29	0.09	8 / 13	0.34	0.24	0.09	1.20	1.11	0.35	
Underhill	1995	0.44	0.32	0 / 7	0.44	0.44	0.25	0.88	0.63	0.24	
Waterbury	1993	0.44	0.19	7 / 14	0.48	0.40	0.09	2.08	1.99	0.54	
Waterbury	1994	0.87	0.49	2 / 18	0.88	0.86	0.09	5.43	5.34	1.23	
Winooski	1994	1.06	0.39	4 / 13	1.09	1.04	0.09	7.51	7.42	2.01	
Winooski	1995	0.71	0.74	0 / 7	0.71	0.71	0.49	0.85	0.35	0.14	

m,p-xylene		state standard See Xylene, total ESE MDL: 0.43			Radian MDL: 0.48			CAS #	108-38-3		
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	4.01	4.34	1 / 14	4.03	3.99	0.22	7.16	6.95	1.77	
Burlington	1994	5.81	5.86	0 / 31	5.81	5.81	1.56	11.07	9.51	2.16	
Burlington	1995	4.78	4.56	0 / 18	4.78	4.78	2.17	9.73	7.56	2.14	
Rutland	1993	2.48	2.39	0 / 13	2.48	2.48	1.26	4.21	2.95	0.98	
Rutland	1994	5.67	3.67	0 / 30	5.67	5.67	1.00	21.45	20.45	5.49	
Rutland	1995	3.17	2.91	1 / 17	3.18	3.15	0.24	8.99	8.75	2.15	
Underhill	1994	0.49	0.22	9 / 13	0.64	0.34	0.22	2.30	2.08	0.60	
Underhill	1995	0.70	0.24	10 / 18	0.83	0.58	0.22	2.17	1.95	0.64	
Waterbury	1993	0.79	0.65	1 / 14	0.81	0.78	0.22	2.48	2.26	0.55	
Waterbury	1994	0.93	0.83	5 / 18	0.99	0.87	0.22	3.91	3.69	0.87	
Winooski	1994	1.08	1.00	2 / 13	1.11	1.05	0.22	3.00	2.78	0.75	
Winooski	1995	1.44	1.00	1 / 18	1.45	1.43	0.22	8.21	7.99	1.74	

Table 2, Page 6

methyl chloride		state standard 0.01			annual average			CAS #	74-87-3		
		ESE MDL: 0.21			Radian MDL: 0.81						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.12	1.26	1 / 14	1.13	1.12	0.10	1.59	1.49	0.39	
Burlington	1994	1.39	1.34	0 / 31	1.39	1.39	1.07	2.19	1.12	0.23	
Burlington	1995	1.34	1.38	1 / 18	1.36	1.32	0.40	2.40	1.99	0.45	
Rutland	1993	1.11	1.09	0 / 13	1.11	1.11	0.60	1.84	1.24	0.35	
Rutland	1994	1.31	1.31	0 / 30	1.31	1.31	0.99	1.53	0.54	0.13	
Rutland	1995	1.04	0.97	6 / 17	1.18	0.90	0.40	2.35	1.95	0.61	
Underhill	1994	1.24	1.26	0 / 13	1.24	1.24	0.97	1.49	0.52	0.14	
Underhill	1995	1.09	1.20	4 / 18	1.18	1.00	0.40	1.67	1.27	0.43	
Waterbury	1993	1.06	1.19	0 / 14	1.06	1.06	0.31	1.69	1.38	0.41	
Waterbury	1994	1.38	1.36	0 / 18	1.38	1.38	0.21	2.02	1.82	0.37	
Winooski	1994	1.27	1.22	0 / 13	1.27	1.27	1.05	1.98	0.93	0.24	
Winooski	1995	1.07	1.20	4 / 18	1.16	0.98	0.40	1.65	1.25	0.42	

methylene chloride		state standard 2			annual average			CAS #	75-09-2		
		ESE MDL: 0.24			Radian MDL: 0.56						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.80	1.08	2 / 14	1.82	1.78	0.12	7.61	7.49	2.03	
Burlington	1994	7.79	2.85	1 / 31	7.80	7.79	0.12	101.4	101.32	18.41	
Burlington	1995	5.20	0.71	8 / 18	5.33	5.08	0.28	71.91	71.63	16.72	
Rutland	1993	1.82	1.08	0 / 13	1.82	1.82	0.49	7.99	7.50	2.00	
Rutland	1994	8.41	1.55	1 / 30	8.42	8.41	0.12	125.4	125.29	23.32	
Rutland	1995	3.66	1.49	5 / 17	3.74	3.58	0.28	12.92	12.65	4.15	
Underhill	1994	4.74	1.95	0 / 13	4.74	4.74	0.49	18.52	18.03	5.80	
Underhill	1995	1.95	0.28	10 / 18	2.11	1.80	0.28	10.32	10.04	2.99	
Waterbury	1993	3.19	1.46	2 / 14	3.20	3.17	0.12	25.40	25.27	6.50	
Waterbury	1994	3.66	1.20	0 / 18	3.66	3.66	0.24	19.04	18.79	5.34	
Winooski	1994	6.75	2.29	0 / 13	6.75	6.75	0.56	39.95	39.40	10.99	
Winooski	1995	2.08	0.64	9 / 18	2.22	1.94	0.28	11.39	11.12	2.90	

o-xylene		state standard See Xylene, total			annual average			CAS #	195-47-6		
		ESE MDL: 0.13			Radian MDL: 0.26						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	1.76	1.95	1 / 14	1.76	1.76	0.07	3.08	3.02	0.78	
Burlington	1994	2.23	2.17	0 / 31	2.23	2.23	0.69	4.69	3.99	0.93	
Burlington	1995	1.91	1.76	0 / 18	1.91	1.91	0.96	4.04	3.08	0.88	
Rutland	1993	0.96	1.09	2 / 13	0.97	0.95	0.07	1.78	1.72	0.54	
Rutland	1994	2.13	1.41	0 / 30	2.13	2.13	0.39	9.34	8.95	2.08	
Rutland	1995	1.20	1.13	1 / 17	1.21	1.20	0.13	3.47	3.34	0.80	
Underhill	1994	0.18	0.07	9 / 13	0.22	0.13	0.07	0.78	0.72	0.21	
Underhill	1995	0.38	0.13	11 / 18	0.43	0.32	0.07	2.17	2.11	0.52	
Waterbury	1993	0.25	0.07	8 / 14	0.29	0.21	0.07	1.04	0.98	0.28	
Waterbury	1994	0.36	0.37	7 / 18	0.39	0.34	0.07	1.82	1.76	0.41	
Winooski	1994	0.37	0.35	4 / 13	0.39	0.35	0.07	1.17	1.11	0.31	
Winooski	1995	0.48	0.37	2 / 18	0.49	0.47	0.07	2.39	2.32	0.49	

Table 2, Page 7

octane		state standard none					Radian MDL: 0.23			CAS #	111-65-9
		ESE MDL: 0.28									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.22	0.14	10 / 14	0.32	0.12	0.14	0.51	0.37	0.13	
Burlington	1994	0.35	0.33	9 / 31	0.39	0.31	0.14	0.84	0.70	0.18	
Burlington	1995	0.29	0.28	5 / 18	0.33	0.26	0.12	0.65	0.54	0.15	
Rutland	1993	0.20	0.14	10 / 13	0.31	0.09	0.14	0.42	0.28	0.12	
Rutland	1994	0.44	0.28	10 / 30	0.49	0.39	0.14	2.01	1.87	0.43	
Rutland	1995	0.23	0.14	10 / 17	0.30	0.16	0.12	0.51	0.40	0.14	
Underhill	1994	0.14	0.14	13 / 13	0.28	0.00	0.14	0.14	0.00	0.00	
Underhill	1995	0.15	0.13	16 / 18	0.26	0.03	0.12	0.37	0.26	0.06	
Waterbury	1993	0.15	0.14	13 / 14	0.28	0.02	0.14	0.28	0.14	0.04	
Waterbury	1994	0.15	0.14	17 / 18	0.29	0.02	0.14	0.37	0.23	0.06	
Winooski	1994	0.15	0.14	12 / 13	0.28	0.03	0.14	0.33	0.19	0.05	
Winooski	1995	0.15	0.13	16 / 18	0.26	0.04	0.12	0.42	0.30	0.07	

pentane		state standard none					Radian MDL:			CAS #	109-66-0
		ESE MDL: 0.06									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	4.04	3.64	1 / 14	4.04	4.03	0.03	8.62	8.59	2.32	
Burlington	1994	5.72	4.34	0 / 31	5.72	5.72	2.33	22.57	20.24	4.10	
Burlington	1995	3.46	3.10	0 / 7	3.46	3.46	2.04	5.58	3.54	1.32	
Rutland	1993	3.39	2.27	0 / 13	3.39	3.39	1.42	9.24	7.82	2.43	
Rutland	1994	5.52	3.69	0 / 30	5.52	5.52	1.65	20.60	18.94	4.92	
Rutland	1995	3.09	2.71	0 / 7	3.09	3.09	1.27	6.34	5.08	1.64	
Underhill	1994	0.62	0.44	3 / 13	0.62	0.61	0.03	2.10	2.07	0.66	
Underhill	1995	0.79	0.65	0 / 7	0.79	0.79	0.53	1.77	1.24	0.44	
Waterbury	1993	1.21	0.66	2 / 14	1.22	1.21	0.03	7.38	7.35	1.85	
Waterbury	1994	2.92	1.11	0 / 18	2.92	2.92	0.35	31.57	31.22	7.20	
Winooski	1994	1.46	1.27	1 / 13	1.46	1.46	0.03	4.63	4.60	1.27	
Winooski	1995	1.55	1.68	0 / 7	1.55	1.55	0.91	1.98	1.06	0.41	

propylene		state standard none					Radian MDL: 0.15			CAS #	115-07-0
		ESE MDL: 0.07									
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	2.36	2.19	1 / 14	2.36	2.36	0.03	4.58	4.54	1.18	
Burlington	1994	3.38	2.91	0 / 31	3.38	3.38	1.74	7.21	5.47	1.51	
Burlington	1995	2.96	2.70	0 / 18	2.96	2.96	0.83	6.57	5.75	1.40	
Rutland	1993	1.91	1.48	0 / 13	1.91	1.91	0.60	4.60	3.99	1.40	
Rutland	1994	4.59	3.16	0 / 30	4.59	4.59	1.14	17.04	15.90	3.86	
Rutland	1995	2.25	1.45	1 / 17	2.26	2.25	0.08	6.37	6.29	1.79	
Underhill	1994	0.61	0.48	0 / 13	0.61	0.61	0.09	1.60	1.51	0.41	
Underhill	1995	0.53	0.18	8 / 18	0.56	0.49	0.08	1.84	1.76	0.58	
Waterbury	1993	1.19	0.61	1 / 14	1.19	1.19	0.03	4.51	4.47	1.36	
Waterbury	1994	1.49	1.26	0 / 18	1.49	1.49	0.50	4.35	3.86	0.88	
Winooski	1994	1.07	1.00	1 / 13	1.07	1.07	0.03	2.86	2.82	0.73	
Winooski	1995	0.85	0.56	3 / 18	0.86	0.83	0.08	2.29	2.21	0.69	

Table 2, Page 8

styrene		state standard 512			annual average			CAS #	100-42-5		
		ESE MDL: 0.13			Radian MDL: 0.34						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.20	0.06	8 / 14	0.24	0.16	0.06	0.51	0.45	0.18	
Burlington	1994	0.36	0.34	8 / 31	0.38	0.35	0.06	1.11	1.04	0.26	
Burlington	1995	0.43	0.17	11 / 18	0.51	0.35	0.06	3.71	3.64	0.83	
Rutland	1993	0.55	0.06	7 / 13	0.58	0.51	0.06	2.17	2.11	0.71	
Rutland	1994	0.22	0.06	20 / 30	0.26	0.17	0.06	1.66	1.60	0.32	
Rutland	1995	0.14	0.17	16 / 17	0.26	0.02	0.06	0.30	0.23	0.07	
Underhill	1994	0.49	0.06	11 / 13	0.54	0.44	0.06	5.41	5.35	1.48	
Underhill	1995	0.31	0.17	11 / 18	0.38	0.25	0.06	1.02	0.96	0.31	
Waterbury	1993	0.06	0.06	14 / 14	0.13	0.00	0.06	0.06	0.00	0.00	
Waterbury	1994	0.09	0.06	16 / 18	0.15	0.04	0.06	0.34	0.28	0.08	
Winooski	1994	0.16	0.06	10 / 13	0.21	0.11	0.06	0.89	0.83	0.24	
Winooski	1995	0.13	0.17	18 / 18	0.26	0.00	0.06	0.17	0.11	0.05	

tetrachloroethylene		state standard 0.41			annual average			CAS #	127-18-4		
		ESE MDL: 0.20			Radian MDL: 0.27						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	0.19	0.10	11 / 14	0.27	0.11	0.10	0.68	0.58	0.19	
Burlington	1994	0.62	0.10	16 / 31	0.67	0.56	0.10	9.97	9.87	1.76	
Burlington	1995	0.23	0.14	16 / 18	0.34	0.12	0.10	1.63	1.53	0.36	
Rutland	1993	0.18	0.10	10 / 13	0.26	0.10	0.10	0.47	0.37	0.15	
Rutland	1994	0.24	0.10	21 / 30	0.31	0.17	0.10	1.15	1.05	0.25	
Rutland	1995	0.17	0.14	15 / 17	0.27	0.06	0.10	0.75	0.64	0.15	
Underhill	1994	0.13	0.10	12 / 13	0.22	0.04	0.10	0.47	0.37	0.10	
Underhill	1995	0.12	0.14	18 / 18	0.24	0.00	0.10	0.14	0.03	0.02	
Waterbury	1993	0.10	0.10	14 / 14	0.20	0.00	0.10	0.10	0.00	0.00	
Waterbury	1994	0.20	0.10	14 / 18	0.28	0.12	0.10	0.68	0.58	0.19	
Winooski	1994	0.19	0.10	10 / 13	0.27	0.11	0.10	0.68	0.58	0.18	
Winooski	1995	0.18	0.14	16 / 18	0.28	0.07	0.10	0.95	0.85	0.20	

toluene		state standard 8930			24hr			CAS #	108-88-3		
		ESE MDL: 0.26			Radian MDL: 0.15						
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1993	7.25	7.03	1 / 14	7.26	7.24	0.13	13.46	13.32	3.36	
Burlington	1994	11.87	9.87	0 / 31	11.87	11.87	3.17	58.04	54.88	9.47	
Burlington	1995	6.26	5.56	0 / 18	6.26	6.26	2.71	12.66	9.95	2.75	
Rutland	1993	5.11	3.96	1 / 13	5.12	5.10	0.13	12.48	12.34	3.24	
Rutland	1994	9.49	6.90	0 / 30	9.49	9.49	2.19	34.90	32.71	7.67	
Rutland	1995	4.54	3.20	1 / 17	4.55	4.54	0.08	10.70	10.63	2.94	
Underhill	1994	1.46	0.64	0 / 13	1.46	1.46	0.34	6.48	6.14	1.76	
Underhill	1995	1.13	0.79	0 / 18	1.13	1.13	0.34	2.86	2.53	0.76	
Waterbury	1993	1.93	1.49	0 / 14	1.93	1.93	0.53	6.67	6.14	1.49	
Waterbury	1994	2.68	1.79	0 / 18	2.68	2.68	0.75	11.80	11.04	2.90	
Winooski	1994	2.85	2.86	0 / 13	2.85	2.85	0.75	6.29	5.54	1.55	
Winooski	1995	2.50	1.71	0 / 18	2.50	2.50	0.72	8.48	7.76	2.03	

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trichloroethylene		state standard 0.42			annual average			CAS #	79-01-6	
		ESE MDL: 0.27			Radian MDL: 0.27					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	0.13	0.13	14 / 14	0.27	0.00	0.13	0.13	0.00	0.00
Burlington	1994	0.14	0.13	30 / 31	0.27	0.01	0.13	0.38	0.24	0.04
Burlington	1995	0.13	0.13	18 / 18	0.27	0.00	0.13	0.13	0.00	0.00
Rutland	1993	0.32	0.13	12 / 13	0.44	0.19	0.13	2.52	2.39	0.66
Rutland	1994	0.19	0.13	29 / 30	0.32	0.06	0.13	1.83	1.69	0.31
Rutland	1995	0.13	0.13	17 / 17	0.27	0.00	0.13	0.13	0.00	0.00
Underhill	1994	0.13	0.13	13 / 13	0.27	0.00	0.13	0.13	0.00	0.00
Underhill	1995	0.17	0.13	17 / 18	0.30	0.04	0.13	0.81	0.67	0.16
Waterbury	1993	0.17	0.13	13 / 14	0.29	0.04	0.13	0.59	0.46	0.12
Waterbury	1994	0.13	0.13	18 / 18	0.27	0.00	0.13	0.13	0.00	0.00
Winooski	1994	0.27	0.13	9 / 13	0.37	0.18	0.13	0.70	0.56	0.22
Winooski	1995	0.17	0.13	16 / 18	0.29	0.05	0.13	0.48	0.35	0.10

trichlorofluoromethane		state standard 133500			24hr			CAS #	75-69-4	
		ESE MDL: 0.39			Radian MDL:					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	1.54	1.63	1 / 14	1.55	1.52	0.20	2.02	1.83	0.43
Burlington	1994	1.81	1.69	0 / 31	1.81	1.81	1.40	3.54	2.14	0.40
Burlington	1995	1.57	1.52	0 / 7	1.57	1.57	1.07	2.25	1.18	0.36
Rutland	1993	1.56	1.57	0 / 13	1.56	1.56	1.24	2.08	0.84	0.24
Rutland	1994	1.71	1.69	0 / 30	1.71	1.71	1.35	2.36	1.01	0.23
Rutland	1995	1.59	1.46	0 / 7	1.59	1.59	1.07	2.70	1.63	0.51
Underhill	1994	1.59	1.52	0 / 13	1.59	1.59	1.35	2.70	1.35	0.34
Underhill	1995	1.57	1.46	0 / 7	1.57	1.57	1.40	1.85	0.45	0.18
Waterbury	1993	1.55	1.69	0 / 14	1.55	1.55	0.39	1.91	1.52	0.38
Waterbury	1994	1.81	1.66	0 / 18	1.81	1.81	0.45	3.32	2.87	0.60
Winooski	1994	1.58	1.57	0 / 13	1.58	1.58	1.40	2.14	0.73	0.19
Winooski	1995	1.57	1.57	0 / 7	1.57	1.57	1.46	1.74	0.28	0.09

xylene, total		state standard 1040			annual average			CAS #	1330-20-	
		ESE MDL:			Radian MDL:					
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1993	5.77	6.36				0.28	10.25	9.97	2.55
Burlington	1994	8.04	8.12				2.26	15.20	12.94	3.05
Burlington	1995	6.68	6.27				3.13	13.77	10.64	3.01
Rutland	1993	3.44	3.56				1.63	5.99	4.36	1.47
Rutland	1994	7.80	4.99				1.48	30.79	29.31	7.49
Rutland	1995	4.37	4.04				0.37	12.46	12.09	2.95
Underhill	1994	0.66	0.28				0.28	3.08	2.80	0.81
Underhill	1995	1.08	0.37				0.28	3.95	3.67	1.10
Waterbury	1993	1.04	0.74				0.28	3.52	3.24	0.82
Waterbury	1994	1.29	1.15				0.28	5.73	5.45	1.27
Winooski	1994	1.45	1.39				0.28	4.17	3.89	1.06
Winooski	1995	1.93	1.37				0.28	10.60	10.31	2.23

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Table 3 (See Section III.B.1)

Carbonyl Summary Statistics, 1994-1995

MDL for Carbonyl are a function of sample volume and vary from sample to sample.

Laboratories: ESE from 1/93 to 3/95 and Radian from 8/95 to 12/95

NND/N : Number of Non-Detects / Number of Samples

All Non-Detects = 1/2 MDL (except for high mean and low mean)

High Mean: All Non-Detects = MDL

Low Mean: All Non-Detects = 0

Units: ug/M3

2,5-dimethylbenzaldehyde			state standard		no standard			CAS #		5779-94-2
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1994	0.15	0.15	34 / 34	0.30	0.00	0.12	0.16	0.04	0.01
Burlington	1995	0.17	0.15	12 / 18	0.26	0.09	0.06	0.44	0.37	0.10
Rutland	1994	0.17	0.16	36 / 36	0.34	0.00	0.08	0.47	0.38	0.05
Rutland	1995	0.17	0.16	14 / 17	0.29	0.05	0.08	0.32	0.24	0.07
Underhill	1994	0.11	0.11	13 / 13	0.22	0.00	0.10	0.13	0.03	0.01
Underhill	1995	0.08	0.09	13 / 17	0.14	0.03	0.02	0.32	0.30	0.07
Waterbury	1994	0.10	0.10	24 / 24	0.19	0.00	0.06	0.12	0.06	0.01
Winooski	1994	0.19	0.19	13 / 13	0.38	0.00	0.18	0.21	0.03	0.01
Winooski	1995	0.12	0.15	14 / 17	0.22	0.03	0.05	0.19	0.14	0.06

acetaldehyde			state standard		1800	8hr	CAS #		75-07-0	
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1994	1.80	1.73	0 / 34	1.80	1.80	0.74	2.94	2.20	0.57
Burlington	1995	3.93	2.94	0 / 18	3.93	3.93	0.80	23.07	22.27	5.10
Rutland	1994	1.66	1.73	0 / 36	1.66	1.66	0.33	3.41	3.07	0.71
Rutland	1995	4.65	3.41	0 / 17	4.65	4.65	0.83	19.73	18.89	4.71
Underhill	1994	0.57	0.45	0 / 13	0.57	0.57	0.15	1.17	1.03	0.36
Underhill	1995	1.59	0.60	0 / 17	1.59	1.59	0.18	9.26	9.08	2.31
Waterbury	1994	1.03	0.90	0 / 24	1.03	1.03	0.61	1.81	1.21	0.37
Winooski	1994	1.08	0.90	0 / 13	1.08	1.08	0.31	2.75	2.45	0.66
Winooski	1995	2.77	1.36	0 / 17	2.77	2.77	0.48	13.64	13.16	3.26

acetone			state standard		178000	8hr	CAS #		67-64-1	
Site	Year	Average	Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1994	2.15	2.14	0 / 34	2.15	2.15	0.83	3.77	2.94	0.88
Burlington	1995	4.92	4.60	0 / 18	4.92	4.92	0.97	11.04	10.07	3.56
Rutland	1994	2.18	2.11	0 / 36	2.18	2.18	0.59	4.83	4.24	1.11
Rutland	1995	6.26	4.56	0 / 17	6.26	6.26	0.84	16.56	15.71	5.15
Underhill	1994	1.15	1.01	0 / 13	1.15	1.15	0.21	2.33	2.12	0.61
Underhill	1995	1.85	1.15	0 / 17	1.85	1.85	0.46	5.04	4.58	1.38
Waterbury	1994	1.29	1.09	1 / 24	1.30	1.29	0.04	2.58	2.55	0.85
Winooski	1994	2.29	1.66	0 / 13	2.29	2.29	0.69	4.69	4.01	1.24
Winooski	1995	1.83	1.64	0 / 17	1.83	1.83	0.64	4.79	4.15	1.11

acrolein										
Site	Year	Average	state standard			2.5	8hr	CAS #		107-02-8
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.
Burlington	1994	0.05	0.05	33 / 34	0.10	0.01	0.05	0.18	0.13	0.02
Burlington	1995	0.07	0.05	13 / 18	0.09	0.04	0.01	0.24	0.23	0.06
Rutland	1994	0.06	0.06	35 / 36	0.11	0.00	0.01	0.15	0.15	0.02
Rutland	1995	0.11	0.06	11 / 17	0.14	0.09	0.01	0.31	0.30	0.10
Underhill	1994	0.04	0.04	13 / 13	0.07	0.00	0.03	0.04	0.01	0.00
Underhill	1995	0.02	0.01	17 / 17	0.04	0.00	0.00	0.05	0.05	0.02
Waterbury	1994	0.03	0.03	24 / 24	0.07	0.00	0.02	0.04	0.02	0.00
Winooski	1994	0.06	0.06	13 / 13	0.13	0.00	0.06	0.07	0.01	0.00
Winooski	1995	0.10	0.06	9 / 17	0.13	0.07	0.01	0.47	0.46	0.11

benzaldehyde											
Site	Year	Average	state standard			no standard			CAS #		100-52-7
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	0.19	0.20	10 / 34	0.21	0.16	0.08	0.35	0.27	0.08	
Burlington	1995	0.32	0.31	5 / 18	0.35	0.29	0.09	0.83	0.74	0.20	
Rutland	1994	0.15	0.10	27 / 36	0.22	0.07	0.08	0.47	0.39	0.10	
Rutland	1995	0.26	0.15	10 / 17	0.32	0.20	0.08	0.79	0.71	0.24	
Underhill	1994	0.07	0.06	13 / 13	0.13	0.00	0.05	0.10	0.05	0.01	
Underhill	1995	0.07	0.05	13 / 17	0.10	0.03	0.02	0.26	0.25	0.06	
Waterbury	1994	0.07	0.06	18 / 24	0.11	0.03	0.03	0.17	0.13	0.04	
Winooski	1994	0.11	0.10	12 / 13	0.21	0.02	0.10	0.20	0.10	0.03	
Winooski	1995	0.29	0.19	8 / 17	0.34	0.25	0.05	1.75	1.70	0.39	

butyr/isobutyraldehyde											
Site	Year	Average	state standard			no standard			CAS #		123-72-8
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	0.15	0.15	9 / 34	0.16	0.13	0.06	0.33	0.28	0.07	
Burlington	1995	0.50	0.50	5 / 18	0.51	0.48	0.06	1.23	1.18	0.40	
Rutland	1994	0.14	0.15	15 / 36	0.17	0.11	0.06	0.30	0.24	0.07	
Rutland	1995	0.65	0.64	6 / 17	0.67	0.62	0.06	1.68	1.62	0.60	
Underhill	1994	0.05	0.04	11 / 13	0.09	0.01	0.04	0.09	0.06	0.02	
Underhill	1995	0.10	0.04	8 / 17	0.12	0.09	0.00	0.39	0.38	0.10	
Waterbury	1994	0.09	0.10	9 / 24	0.11	0.08	0.03	0.22	0.19	0.05	
Winooski	1994	0.09	0.07	10 / 13	0.15	0.03	0.07	0.15	0.08	0.03	
Winooski	1995	0.11	0.07	9 / 17	0.15	0.08	0.01	0.35	0.34	0.10	

crotonaldehyde											
Site	Year	Average	state standard			no standard			CAS #		123-73-9
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	0.18	0.17	10 / 34	0.20	0.17	0.06	0.44	0.38	0.11	
Burlington	1995	0.42	0.30	1 / 18	0.42	0.41	0.07	1.52	1.45	0.36	
Rutland	1994	0.18	0.17	17 / 36	0.22	0.14	0.07	0.55	0.48	0.13	
Rutland	1995	0.43	0.32	2 / 17	0.44	0.42	0.07	1.36	1.28	0.34	
Underhill	1994	0.05	0.05	12 / 13	0.10	0.01	0.04	0.13	0.09	0.02	
Underhill	1995	0.13	0.05	9 / 17	0.15	0.11	0.01	1.01	1.00	0.24	
Waterbury	1994	0.09	0.05	15 / 24	0.11	0.06	0.03	0.25	0.22	0.07	
Winooski	1994	0.08	0.08	13 / 13	0.16	0.00	0.08	0.09	0.02	0.00	
Winooski	1995	0.24	0.08	7 / 17	0.27	0.21	0.02	1.30	1.28	0.37	

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formaldehyde											
Site	Year	Average	state standard			0.08 annual average			CAS #		50-00-0
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	3.24	3.20	0 / 34	3.24	3.24	1.63	4.44	2.81	0.86	
Burlington	1995	5.23	5.17	0 / 18	5.23	5.23	1.59	11.14	9.55	3.19	
Rutland	1994	2.69	2.55	0 / 36	2.69	2.69	0.64	5.74	5.10	1.17	
Rutland	1995	5.92	5.95	0 / 17	5.92	5.92	1.45	14.05	12.60	4.50	
Underhill	1994	0.89	0.77	0 / 13	0.89	0.89	0.45	1.41	0.96	0.33	
Underhill	1995	1.19	1.08	0 / 17	1.19	1.19	0.26	2.34	2.08	0.63	
Waterbury	1994	1.97	1.90	0 / 24	1.97	1.97	0.75	3.85	3.11	0.63	
Winooski	1994	1.77	1.86	0 / 13	1.77	1.77	0.57	3.39	2.82	0.85	
Winooski	1995	10.16	9.14	0 / 17	10.16	10.16	0.86	44.28	43.43	11.38	

hexanaldehyde											
Site	Year	Average	state standard			no standard			CAS #		66-25-1
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	0.14	0.14	33 / 34	0.26	0.01	0.01	0.28	0.27	0.03	
Burlington	1995	0.23	0.16	7 / 18	0.28	0.17	0.12	0.74	0.62	0.15	
Rutland	1994	0.17	0.15	33 / 36	0.32	0.02	0.14	0.41	0.27	0.06	
Rutland	1995	0.27	0.17	7 / 17	0.33	0.21	0.12	0.74	0.62	0.17	
Underhill	1994	0.10	0.10	13 / 13	0.20	0.00	0.09	0.11	0.02	0.01	
Underhill	1995	0.08	0.08	9 / 17	0.12	0.04	0.00	0.27	0.26	0.06	
Waterbury	1994	0.10	0.09	22 / 24	0.18	0.02	0.06	0.19	0.13	0.03	
Winooski	1994	0.19	0.17	12 / 13	0.35	0.03	0.16	0.40	0.23	0.06	
Winooski	1995	0.12	0.13	9 / 17	0.19	0.05	0.01	0.17	0.16	0.05	

isovaleraldehyde											
Site	Year	Average	state standard			no standard			CAS #		590-86-3
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	0.07	0.07	34 / 34	0.15	0.00	0.07	0.08	0.01	0.00	
Burlington	1995	0.17	0.08	10 / 18	0.20	0.13	0.03	0.94	0.92	0.23	
Rutland	1994	0.08	0.08	36 / 36	0.17	0.00	0.04	0.22	0.18	0.02	
Rutland	1995	0.06	0.07	17 / 17	0.13	0.00	0.04	0.09	0.05	0.02	
Underhill	1994	0.05	0.06	13 / 13	0.11	0.00	0.05	0.06	0.01	0.00	
Underhill	1995	0.03	0.04	17 / 17	0.06	0.00	0.01	0.05	0.05	0.02	
Waterbury	1994	0.05	0.05	24 / 24	0.10	0.00	0.03	0.07	0.04	0.01	
Winooski	1994	0.09	0.09	13 / 13	0.18	0.00	0.09	0.10	0.02	0.00	
Winooski	1995	0.13	0.07	15 / 17	0.18	0.08	0.02	1.24	1.22	0.29	

propionaldehyde											
Site	Year	Average	state standard			no standard			CAS #		132-38-6
			Median	NND/N	High Mean	Low Mean	Min	Max	Range	Std. Dev.	
Burlington	1994	0.32	0.32	1 / 34	0.32	0.32	0.05	0.72	0.66	0.16	
Burlington	1995	0.57	0.59	2 / 18	0.58	0.57	0.02	1.35	1.34	0.45	
Rutland	1994	0.33	0.31	5 / 36	0.34	0.32	0.06	0.73	0.68	0.18	
Rutland	1995	0.87	0.99	0 / 17	0.87	0.87	0.12	2.02	1.89	0.72	
Underhill	1994	0.11	0.04	8 / 13	0.14	0.09	0.03	0.42	0.38	0.11	
Underhill	1995	0.13	0.05	9 / 17	0.15	0.11	0.00	0.79	0.79	0.19	
Waterbury	1994	0.18	0.18	2 / 24	0.18	0.17	0.04	0.41	0.38	0.08	
Winooski	1994	0.18	0.16	6 / 13	0.21	0.15	0.06	0.39	0.33	0.13	
Winooski	1995	0.19	0.14	7 / 17	0.21	0.17	0.01	0.71	0.70	0.20	

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tolualdehydes											
Site	Year	Average	state standard			no standard			CAS #		Std. Dev.
			Median	NND/N	High Mean	Low Mean	Min	Max	Range		
Burlington	1995	1.18	1.12	1 / 11	1.21	1.14	0.38	2.66	2.28	0.60	
Rutland	1995	1.09	0.82	4 / 10	1.31	0.87	0.46	2.68	2.22	0.73	
Underhill	1995	0.33	0.23	5 / 10	0.40	0.26	0.08	1.19	1.11	0.35	
Winooski	1995	0.59	0.53	3 / 10	0.65	0.54	0.19	1.73	1.54	0.46	

valeraldehyde											
Site	Year	Average	state standard			no standard			CAS #		Std. Dev.
			Median	NND/N	High Mean	Low Mean	Min	Max	Range		
Burlington	1994	0.10	0.07	26 / 34	0.16	0.04	0.07	0.26	0.19	0.05	
Burlington	1995	0.09	0.07	13 / 18	0.13	0.05	0.02	0.31	0.29	0.08	
Rutland	1994	0.13	0.08	26 / 36	0.19	0.07	0.08	0.46	0.38	0.09	
Rutland	1995	0.13	0.08	10 / 17	0.17	0.09	0.04	0.44	0.40	0.10	
Underhill	1994	0.05	0.05	13 / 13	0.11	0.00	0.05	0.06	0.01	0.00	
Underhill	1995	0.03	0.04	15 / 17	0.06	0.01	0.01	0.05	0.04	0.02	
Waterbury	1994	0.12	0.06	13 / 24	0.15	0.09	0.04	0.32	0.28	0.09	
Winooski	1994	0.10	0.09	12 / 13	0.18	0.01	0.09	0.19	0.10	0.03	
Winooski	1995	0.06	0.03	16 / 17	0.11	0.01	0.02	0.25	0.23	0.06	

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Table 4

Semi-Volatile Data-See Section III.B.1

PAH (Polynuclear Aromatic Hydrocarbons) Data			Sample Date: October 24-26, 1995		
Compound	Site	Concentration ug/m ³	HAAS ug/m ³	Exceeds HAAS	Flags
Naphthalene	Burlington	0.0295	120		S
	Winooski	0.0255	120		S
	Rutland	0.055	120		S
	Underhill	0.010	120		B
Phenanthrene	Burlington	0.0078	1.30		B
	Winooski	0.0062	1.30		B,PR
	Rutland	0.0178	1.30		none
	Underhill	0.0016	1.30		B
Flouranthane	Burlington	0.0016	130		none
	Winooski	0.0018	130		none
	Rutland	0.0030	130		none
	Underhill	0.0003	130		B
Pyrene	Burlington	0.0021	3.40		Q
	Winooski	0.0131	3.40		PR
	Rutland	0.0030	3.40		none
	Underhill	0.0003	3.40		B
Benzo(a)pyrene	Burlington	0.000048	0.0003		none
	Winooski	0.000006	0.0003		none
	Rutland	0.000347	0.0003	*	none
	Underhill	non-detect	0.0003		none

PAH (Polynuclear Aromatic Hydrocarbons) Data			Sample Date: February 27-29 1996		
Compound	Site	Concentration ug/m ³	HAAS ug/m ³	Exceeds HAAS	Flags
Naphthalene	Burlington	0.4783	120		none
	Winooski	0.0771	120		none
	Rutland	0.2483	120		none
	Underhill	0.0193	120		S
Phenanthrene	Burlington	0.0140	1.30		none
	Winooski	0.0070	1.30		none
	Rutland	0.0134	1.30		none
	Underhill	0.0020	1.30		B
Flouranthane	Burlington	0.0045	130		none
	Winooski	0.0038	130		none
	Rutland	0.0035	130		none
	Underhill	0.0007	130		B
Pyrene	Burlington	0.0041	3.40		none
	Winooski	0.0085	3.40		none
	Rutland	0.0033	3.40		none
	Underhill	0.0006	3.40		B
Benzo(a)pyrene	Burlington	0.00053	0.0003	*	none
	Winooski	0.00034	0.0003	*	none
	Rutland	0.00046	0.0003	*	none
	Underhill	0.00006	0.0003		none

Table 4 con't

PCB (Polychlorinated Biphenyls) Data						
Sample Date	Site	Concentration, ug/m³	HAAS ug/m³	Exceeds HAAS	Flags	Notes
October 24-26 1995	Burlington	0.00134	0.00081		Q	
	Rutland	0.00058	0.00081		Q	
	Underhill	0.00057	0.00081		Q	
February 27-29 1996	Burlington	0.00018	0.00081		none	98% of sample was EMPC
	Winooski	0.00082	0.00081	*	none	
	Rutland	0.00013	0.00081		none	
	Underhill	0.00002	0.00081		none	

Dioxins/Furans (Chlorodibenzodioxins/chlorodibenzofurans) (a)					
Sample Date	Site	Concentration pg/m³	HAAS pg/m³	Exceeds HAAS	Flags
October 24-26 1995	Burlington	0.0072	0.02		B,PR
	Winooski	0.0188	0.02		none
	Rutland	0.0095	0.02		B,PR
	Underhill	0.0013	0.02		B,PR
February 27-29 1996	Burlington	0.0092	0.02		none
	Winooski	0.0052	0.02		none
	Rutland	0.0058	0.02		none
	Underhill	0.0015	0.02		none

Flag Definitions and Notes

S-Indicates that the signal exceeds the range.

The reported analyte concentration is a minimum estimate of the concentration.

B- Indicates that the analyte has been detected in the lab blank as well as the field blank.

This flag denotes possible contribution of background laboratory contamination to the field sample.

PR- Indicates a poorly resolved GC peak. The concentrations reported are most likely overestimated.

Q- Indicates quantitative interferences. Affected analytes may be overestimated or underestimated.

EMPC- (Estimated Possible Concentration) Calculated when peaks do not have appropriate ion mass ratios for a true PCB.

(a)-Dioxin/Furans are expressed as 2,3,7,8-tetrachlorodibenzo-p-dioxin