N.
4/13/99

Versar INC.

13 April '99

Myron Walters
IDEM
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

Michael McAteer
USEPA, HSEW-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Re: Revised Remedial Action at the Enviro-Chem Site, Zionsville, Indiana
Summary of Round # 1/Baseline SVE System Sampling

Dear Sirs:

Enclosed is a copy of the Round #1/Baseline SVE System Trench sampling data.

If you have any questions, please feel free to call me at (215) 788-7844, Extension 222.

Very truly yours,

G J Anastos

G. J. Anastos, Ph.D., P.E.
Project Manager

enclosure

cc: R Ball (ENVIRON)
N Bernstein (NEB & A)

J:\Common\Envchem\respepa.wpd

1900 FROST ROAD • SUITE 110 • BRISTOL, PENNSYLVANIA 19007 • TELEPHONE (215) 788-7844 • FAX (215) 788-8680

Background

In early January of 1999, round #1/baseline sampling of the Enviro-Chem SVE system, in Zionsville, Indiana, was conducted. As specified in Section 9 of the Enviro-Chem Superfund Site Quality Assurance Project Plan (QAPP), SVE vapors were sampled for volatile organic compounds (VOCs) using two charcoal tubes in series and analyzed using NIOSH methods 1500 and 1003 (modified). A total of 10 liters of vapor were pumped through the tubes at a rate of 0.2 liters per minute (50 minutes total). Samples for phenol were collected using XAD-7 dual sorbent tubes and analyzed using OSHA Method 32. A total of 10 liters of vapor were pumped through the tubes at a rate of 0.1 liters per minute (100 minutes total).

Individual samples for both VOCs and phenol were collected for each of the 42 manifolds on 1/5/99 and 1/6/99. In addition, samples of the combined flow from all 42 manifolds were collected daily for one week (i.e., seven combined flow daily samples collected on 1/5/99, 1/6/99, 1/7/99, 1/8/99, 1/10/99, and 1/11/99) and then weekly for three weeks (i.e., three combined flow weekly samples collected on 1/15/99, 1/22/99, and 1/29/99).

Results

A summary of the VOC sampling results for the front and back charcoal tubes are presented in Table 1. Only detected results are presented, and results which are above cleanup standards are bolded. Note that methylene chloride was the only compound detected in any of the back sections of the two sequential charcoal tubes, and it was only detected in the tubes for two manifolds (manifolds 6 and 8). Figure 1 identifies the location of the "native soil" manifolds and Figure 2 shows the location of the "backfilled soil" manifolds.

Initially, the laboratory neglected to analyze the VOC samples for three compounds for which cleanup levels exist. Specifically, the samples were not initially analyzed for 1,2-Dichloroethylene, 1,2-Dichlorobenzene, and Vinyl chloride. Data on these compounds should be available in the near future. In addition, the detection limits reported for 1,1,2-Trichloroethane, Tetrachloroethane, and Methylene chloride were higher than the cleanup standard. The laboratory is currently investigating whether a lower detection limit can be reported. Detailed analytical results are presented in Appendix A.

The results for phenol are presented in Table 2. None of the phenol results exceeded the cleanup standard. Detailed analytical results are presented in Appendix B.

Table 1. Baseline VOC Sampling Results for EnviroChem Site - January 1999

	Front Section																Back Section	Total VOCs
Manifold #	Acetone	MC	DCA	MEK	Chloroform	TCA	TCE	MIBK	Toluene	1,1,2 - TCA	PCE	Ethylbenzene	M-xylenes	P-xylenes	O-xylenes	Total Xylen	MC	
1					1.2	2.2	1.8		0.62				0.38					6.2
2		1.4			110	**390**	140		1.8	1.4	13	0.13	0.35					658.08
3					4.4	11	9.8		0.71		4.5		0.4					30.91
4		9.6		1.8	76	92	48		23	16	7.3	2.7	14	5	6.8			302.3
5					5.1	6.7	7.8		4	2.3	2.3	0.83	4.6	1.7	2.5			39.83
6		9.2		0.85	39	70	36	1.5	11	7.4	5.5	1.7	9	3.5	4.7		0.66	199.01
7					1.5	0.77	0.72											2.99
8	1.6	18			50	**190**	28		1.4								1.5	280.5
9		1.6			10	14	9.4		0.66									35.56
10		30	1.5		67	72	30		0.96									201.46
11	0.53	2.3			17	7.1	10		0.43		0.8							38.16
12	0.52	1.3			5	6.8	4.4		0.43									18.45
13	2.6	16		0.94	47	86	17		2.4		1.3							152.14
14		1.6			7.9	8.3	5.2		0.76									23.66
15					19	19	22	0.29	2.9	1.6	5.3	0.22	1.3	0.5	0.68			72.79
16					2.7	4	5.1		1.3	0.66	1.4	0.15	0.83	0.32	0.41			16.87
17					1.9	3.6	3.6		1.1	0.47	0.71	0.19	1.1	0.44	0.63			13.64
18					3.6	2.7	2.2		0.36									8.86
19				0.46	4.1	9.8	3.8		1	0.66	1.6	0.16	1	0.41	0.56			23.79
20		0.65	0.45		14	9.8	7		0.42		1							33.32
21					7.6	6.4	3.4		1.8		0.7							19.9
22					3.8	4.4	2.6		0.88		0.62							12.2
23					0.92	4.1	2.2		0.53		1		0.39					9.14
24					9.1	7.5	4		0.52		0.75							21.87
25					13	19	3.8		0.41		1.5							37.71
26	1.5	3.9	1.5	0.51	31	23	16		4.2	2.1	3.2		1.7	0.62	0.95			90.16
27					1.2	2.6	1		0.58	0.4	1.6		0.48		0.3			8.16
28					1.6	13	0.95		0.22		0.71							16.48
29	2.9	12	0.93		44	72	11		5		3.8	0.24	0.34	0.24	0.3			152.75
30					0.8	1.6	0.89		0.64		0.66		0.36		0.27			5.22
31					0.8	1.4	0.78		0.36									3.34
32					1.8	2			0.61		0.62		0.4		0.25			5.68
33					1.3	2.6			1.2	0.82	0.8	0.17	1	0.31	0.64			8.84
34						0.6	0.35		0.22									1.17
35						0.6	0.36		0.32				0.27		0.21			1.76
36						0.44												0.44
37						0.82												0.82
38					0.67	0.93			0.57		0.66		0.37		0.26			3.46
39						0.6												0.6
40																		0
41																		0
42																		0
C-1																		0
C-2					1.8	3.1	1.8		0.46									7.16
C-3					0.31	0.52												0.83
C-4					1.2	1.4	0.72		0.22									3.54
C-5					1.2	1.5	0.95		0.3									3.95
C-6					1.6	2.1	1.5		0.41									5.61
C-7					1.6	2.3	1.8		0.41									6.91
CW-1					0.54	0.46												1
CW-2					0.3	0.42	0.27											0.99
CW-3					0.55	0.82	0.61											1.98
Detection Limit	0.0062	0.022	0.0128	0.0068	0.0224	0.0220	0.0242	0.0090	0.0078	0.0216	0.0416	0.0056	0.0068	0.0068	0.0068	NA	0.0220	NA
Cleanup Standard	2.2	0.126	NA	0.4	NA	47.9	0.812	18.2	546.134	0.071	0.077	207.5	NA	NA	NA	5596.192	NA	NA

Notes: All units ppmv
Only detected results shown (i.e., blank cell indicates non-detect result)
Results in bold are above the cleanup standard

Key:
MC = Methylene Chloride
DCA = 1,1-Dichloroethane
MEK = Methyl Ethyl Ketone
TCA = 1,1,1-Trichloroethane
TCE = Trichloroethylene
MIBK = Methyl Isobutyl Ketone
1,1,2-TCA = 1,1,2-Trichloroethane
PCE = Tetrachloroethene
C-1 = Combined flow daily sample #1
C-2 = Combined flow daily sample #2
C-3 = Combined flow daily sample #3
C-4 = Combined flow daily sample #4
C-5 = Combined flow daily sample #5
C-6 = Combined flow daily sample #6
C-7 = Combined flow daily sample #7
CW-1 = Combined flow weekly sample #1
CW-2 = Combined flow weekly sample #2
CW-3 = Combined flow weekly sample #3

Table 2. Baseline Phenol Sampling Results for EnviroChem Site - January 1999

Manifold #	Phenol
1	<0.0033
2	<0.0033
3	<0.0033
4	<0.0033
5	<0.0033
6	<0.0033
7	<0.0033
8	<0.0033
9	<0.0033
10	<0.0033
11	<0.0033
12	<0.0033
13	<0.0033
14	<0.0033
15	<0.0033
16	<0.0033
17	<0.0033
18	<0.0033
19	<0.0033
20	<0.0033
21	<0.0033
22	<0.0033
23	<0.0033
24	<0.0033
25	<0.0033
26	<0.0033
27	0.015
28	<0.0033
29	0.02
30	<0.0033
31	<0.0033
32	0.019
33	0.019
34	0.015
35	<0.0033
36	0.043
37	<0.0033
38	<0.0033
39	0.016
40	0.02
41	<0.0033
42	<0.0033
C-1	<0.0033
C-2	<0.0033
C-3	<0.0033
C-4	0.017
C-5	0.022
C-6	<0.0033
C-7	<0.0033
CW-1	<0.0033
CW-2	<0.0033
CW-3	<0.0033

Cleanup Standard	51.68

Note: All units ppmv

Key:

C-1 = Combined flow daily sample #1
C-2 = Combined flow daily sample #2
C-3 = Combined flow daily sample #3
C-4 = Combined flow daily sample #4
C-5 = Combined flow daily sample #5
C-6 = Combined flow daily sample #6
C-7 = Combined flow daily sample #7
CW-1 = Combined flow weekly sample #1
CW-2 = Combined flow weekly sample #2
CW-3 = Combined flow weekly sample #3

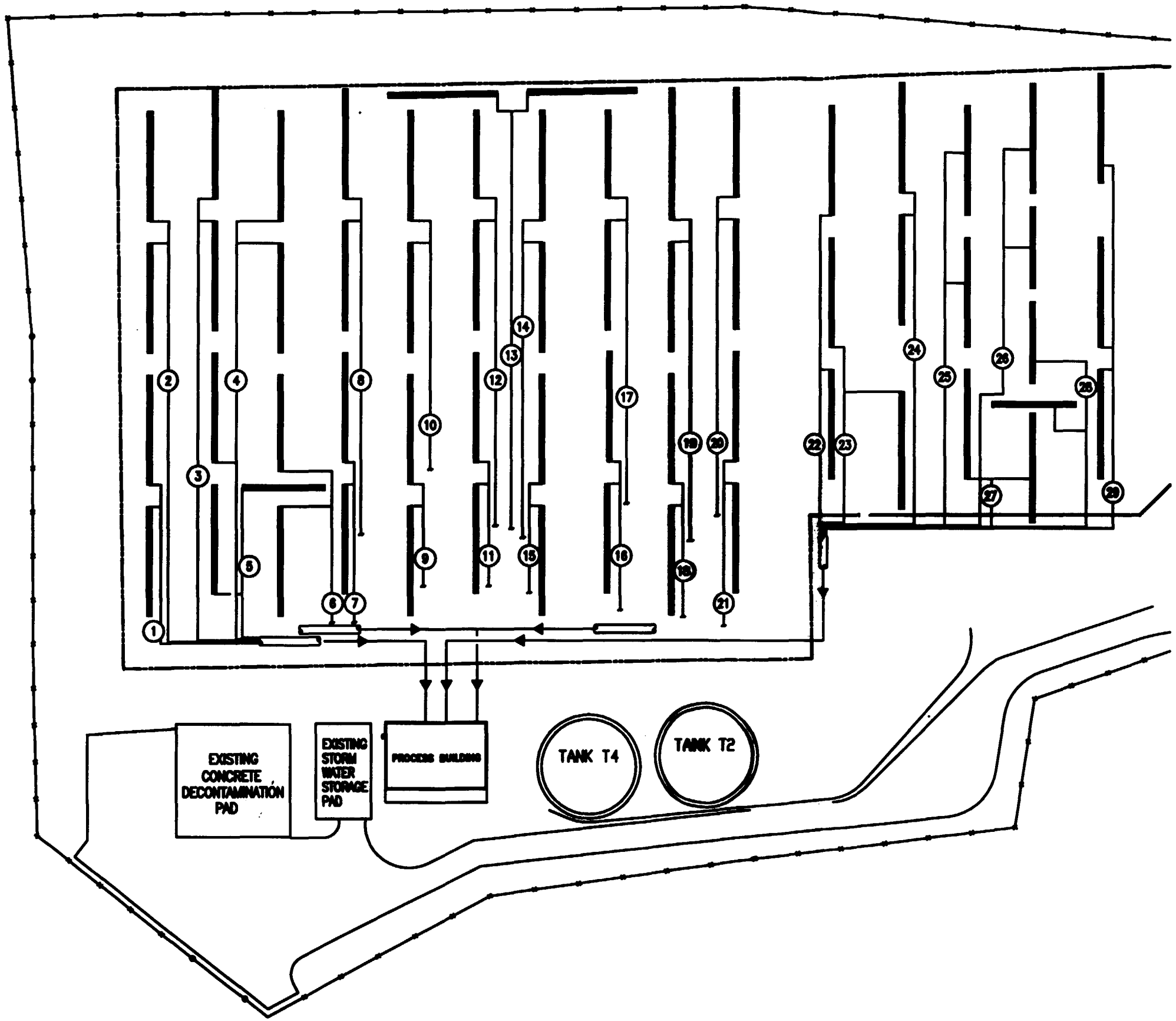

FIGURE 1

DESIGNED	JCP	DATE	09/10/97
DRAWN	TJV		04/15/99
CHECKED	CS		04/15/99

Versar INC.
1940 FROST ROAD, SUITE 110
BRISTOL, PA 19007
(215) 785-7044

ENVIRO-CHEM
SUPERFUND SITE
PHASE 1 SVE TRENCHES
NATIVE SOIL MANIFOLDS

PROJECT NO.	3769	SCALE	NTS
DRAWING NO.	3769002	SHEET	6F

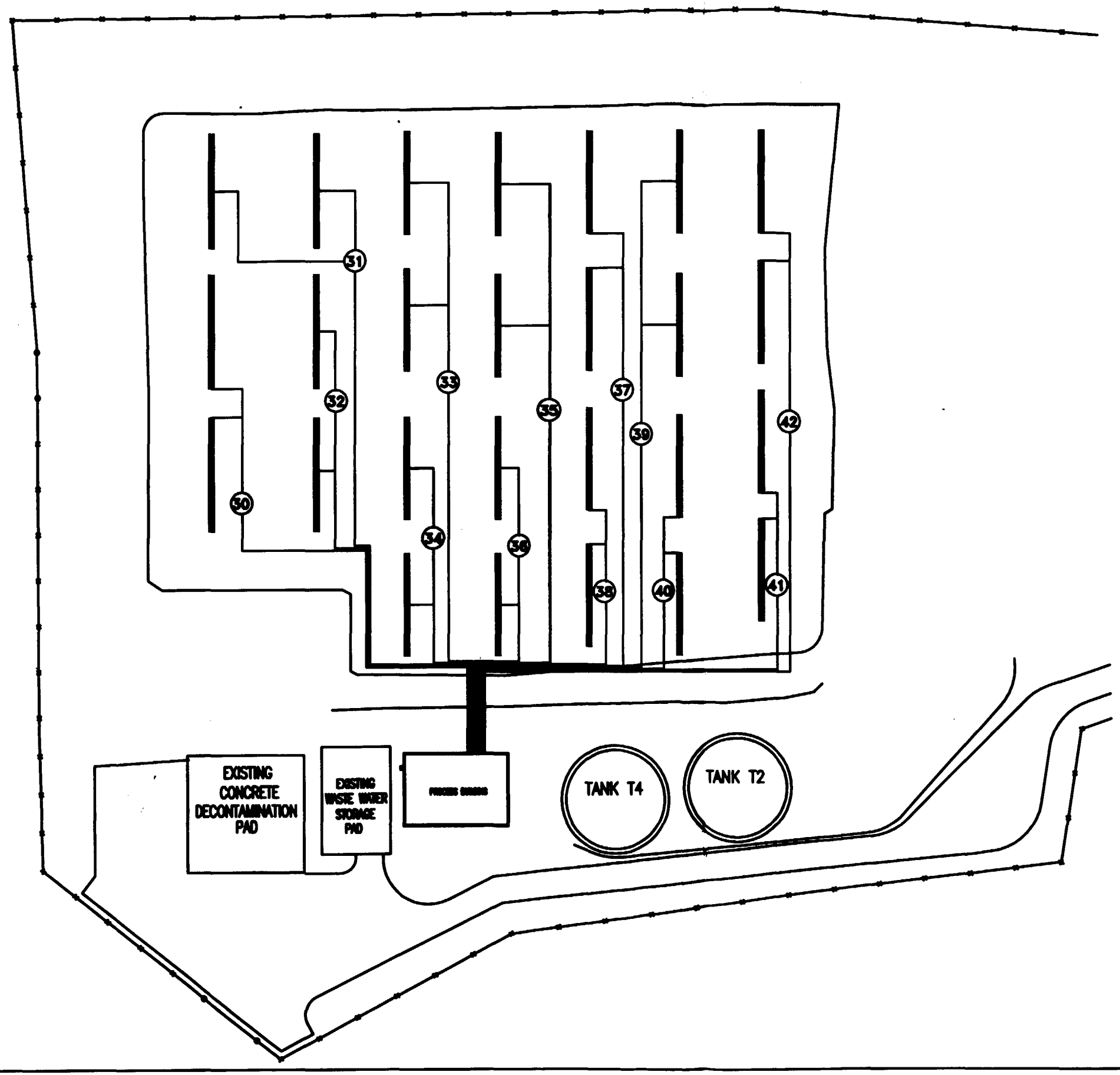

FIGURE 2

DESIGNED	BCP	DATE	08/20/97
DRAWN	TJW		04/15/99
CHECKED	GB		4/15/99

Versar INC.
1000 FRONT ROAD, SUITE 110
BRISTOL, PA 19007
(215) 785-7944

ENVIRO-CHEM
SUPERFUND SITE
PHASE 1 SVE AREAS
BACKFILL SOIL MANIFOLDS

PROJECT NO.	3700	SCALE	NTS
DRAWING NO.	3700052	SHEET	OF

Appendix A

Detailed VOC Analytical Results

Case Narrative for 17 Volatile Compounds Trapped by Charcoal Tubes

Charcoal Tube for 17 Volatile Compounds

Invoice No. JPB9901006

Two sections were analyzed for each sample. These two sections are front and back section. The front section is the section first contacted with air during sampling. After front section, the sampled air then entered the back section. Each of these two sections was separately extracted with 3mL of CS_2 and analyzed by a GC/FID using both DB-5 and DB-WAX columns. Each section will be billed as separate sample. Time of Sampling is 50 minutes with total air volume 10 liters through each sampling tube, except blank.

Field ID	Sample Description	Lab Number	Date of sampling	Date of Sample Receipt	Date of Extraction
1	Log 1	8VA002-01	1/5/1999	1/18/1999	1/24/1999
2	Log 2	8VA002-02	1/5/1999	1/18/1999	1/24/1999
3	Log 3	8VA002-03	1/5/1999	1/18/1999	1/24/1999
4	Log 4	8VA002-04	1/5/1999	1/18/1999	1/24/1999
5	Log 5	8VA002-05	1/5/1999	1/18/1999	1/24/1999
6	Log 6	8VA002-06	1/5/1999	1/18/1999	1/24/1999
7	Log 7	8VA002-07	1/5/1999	1/18/1999	1/24/1999
8	Log 8	8VA002-08	1/5/1999	1/18/1999	1/24/1999
9	Log 9	8VA002-09	1/5/1999	1/18/1999	1/24/1999
10	Log 10	8VA002-10	1/5/1999	1/18/1999	1/24/1999
11	Log 11	8VA002-11	1/5/1999	1/18/1999	1/24/1999
12	Log 12	8VA002-12	1/5/1999	1/18/1999	1/24/1999
13	Log 13	8VA002-13	1/5/1999	1/18/1999	1/24/1999
14	Log 14	8VA002-14	1/5/1999	1/18/1999	1/24/1999
15	Log 15	8VA002-15	1/5/1999	1/18/1999	1/24/1999
16	Log 16	8VA002-16	1/5/1999	1/18/1999	1/24/1999
17	Log 17	8VA002-17	1/5/1999	1/18/1999	1/24/1999
18	Log 18	8VA002-18	1/5/1999	1/18/1999	1/24/1999
19	Log 19	8VA002-19	1/5/1999	1/18/1999	1/24/1999
20	Log 20	8VA002-20	1/5/1999	1/18/1999	1/24/1999
21	Log 21	8VA002-21	1/6/1999	1/18/1999	1/24/1999
22	Log 22	8VA002-22	1/6/1999	1/18/1999	1/24/1999
23	Log 23	8VA002-23	1/6/1999	1/18/1999	1/24/1999
24	Log 24	8VA002-24	1/6/1999	1/18/1999	1/24/1999
25	Log 25	8VA002-25	1/6/1999	1/18/1999	1/24/1999
26	Log 26	8VA002-26	1/6/1999	1/18/1999	1/24/1999
27	Log 27	8VA002-27	1/6/1999	1/18/1999	1/24/1999
28	Log 28	8VA002-28	1/6/1999	1/18/1999	1/24/1999
29	Log 29	8VA002-29	1/6/1999	1/18/1999	1/24/1999
30	Log 30	8VA002-30	1/6/1999	1/18/1999	1/24/1999
31	Log 31	8VA002-31	1/6/1999	1/18/1999	1/24/1999
32	Log 32	8VA002-32	1/6/1999	1/18/1999	1/24/1999
33	Log 33	8VA002-33	1/6/1999	1/18/1999	1/24/1999
34	Log 34	8VA002-34	1/6/1999	1/18/1999	1/24/1999
35	Log 35	8VA002-35	1/6/1999	1/18/1999	1/24/1999
36	Log 36	8VA002-36	1/6/1999	1/18/1999	1/24/1999
37	Log 37	8VA002-37	1/6/1999	1/18/1999	1/24/1999
38	Log 38	8VA002-38	1/6/1999	1/18/1999	1/24/1999
39	Log 39	8VA002-39	1/6/1999	1/18/1999	1/24/1999
40	Log 40	8VA002-40	1/6/1999	1/18/1999	1/24/1999
41	Log 41	8VA002-41	1/6/1999	1/18/1999	1/24/1999
42	Log 42	8VA002-42	1/6/1999	1/18/1999	1/24/1999
C-1	Combined Flow Day 1	8VA002-43	1/5/1999	1/18/1999	1/24/1999
C-2	Combined Flow Day 2	8VA002-44	1/6/1999	1/18/1999	1/24/1999
C-3	Combined Flow Day 3	8VA002-45	1/7/1999	1/18/1999	1/24/1999
C-4	Combined Flow Day 4	8VA002-46	1/8/1999	1/18/1999	1/24/1999
C-5	Combined Flow Day 5	8VA002-47	1/9/1999	1/18/1999	1/24/1999
C-6	Combined Flow Day 6	8VA002-48	1/10/1999	1/18/1999	1/24/1999
C-7	Combined Flow Day 7	8VA002-49	1/11/1999	1/18/1999	1/24/1999
Blank	Blank	8VA002-50	1/8/1999	1/18/1999	1/24/1999
CW-1	Combined Flow Week 1	8VA004-01	1/15/1999	2/1/1999	2/4/1999
CW-2	Combined Flow Week 2	8VA004-02	1/22/1999	2/1/1999	2/4/1999
CW-3	Combined Flow Week 3	8VA004-03	1/29/1999	2/1/1999	2/4/1999

1. For each sample, both total amount found in mg and conc. in ppmv of each compound found are reported.
The assumption of the sampling temperature and pressure are 25°C and 760mmHg, respectively.

2. Two columns, DB-5 and DB-WAX, were used for analysis. For analysis using DB-5,

2.a. methylene chloride eluted close to carbon disulfide ,

2.b. chlroebenzene and ethylbenzene coeluted,

2.c. m-xylene and p-xylene coeluted.

Therefore, DB-WAX was used for the quantitation of methylene chloride, chlorobenzene, ethylbenzene, o-, m-and p-xylenes.
For other compounds, DB-5 was used for quantitation. However, the conc. found in both columns were compared carefully before reported.
For all the concentrations reported, the concentrations found in both columns were close and comparable.

3. For analysis using DB-WAX,

3.a. dichloroethylene coeluted close to carbon disulfide,

3.b. trichloroethene coeluted wtih chloroform.

3.c. The retention of later eluters were changed after inital calibration. However, the retention times were not changed since.
Therefore, the retention times of the following continuous calibration were used for identification.

Analytical Result of Charcoal Tube

			Field Sample ID		Blank
Laboratory Number	8VA002-50		Sample Description		Blank
Extraction Date	1/24/99			Sample Date	1/8/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)****		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		60
	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	011F0101.D	019F0101.D	020F0101.D	020F0101.D	File ID
Acquired on	2/1/99 20:09	2/2/99 21:58	2/1/99 20:20	2/2/99 22:15	Acquired on
Surrogate Recovery	85%	81%	96%	98%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	<0.0220	<0.40	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

****No air was sampled through the blank tube. However, for comparison purpose, a 10 liter of zero air was assumed to be sampled through the blank tube.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.

2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID		C1
Laboratory Number	8VA002-43		Sample Description		Combined Flow Day 1
Extraction Date	1/24/99			Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	021F0101.D	021F0101.D	023F0101.D	023F0101.D	File ID
Acquired on	2/1/99 20:31	2/2/99 22:32	2/1/99 21:57	2/2/99 23:06	Acquired on
Surrogate Recovery	64%	72%	70%	92%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	<0.0220	<0.40	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	C2
Laboratory Number	8VA002-44		Sample Description	Combined Flow Day 2
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	024F0101.D	024F0101.D	025F0101.D	025F0101.D	File ID
Acquired on	2/1/99 22:08	2/2/99 23:23	2/1/99 22:19	2/2/99 23:39	Acquired on
Surrogate Recovery	75%	91%	68%	94%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	9.0E-02	1.8E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.7E-01	3.1E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	9.6E-02	1.8E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.7E-02	4.6E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID		C3
Laboratory Number	8VA002-45		Sample Description		Combined Flow Day 3
Extraction Date	1/24/99			Sample Date	1/7/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	026F0101.D	026F0101.D	027F0101.D	027F0101.D	File ID
Acquired on	2/1/99 22:30	2/2/99 23:56	2/1/99 22:40	2/3/99 12:13	Acquired on
Surrogate Recovery	68%	94%	66%	66%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	1.5E-02	3.1E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.9E-02	5.2E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID		C4
Laboratory Number	8VA002-46		Sample Description		Combined Flow Day 4
Extraction Date	1/24/99			Sample Date	1/8/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	028F0101.D	028F0101.D	029F0101.D	029F0101.D	File ID
Acquired on	2/1/99 22:51	2/3/99 12:29	2/1/99 23:02	2/3/99 12:46	Acquired on
Surrogate Recovery	61%	93%	86%	106%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	5.7E-02	1.2E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	7.5E-02	1.4E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	3.9E-02	7.2E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	8.1E-03	2.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	C5
Laboratory Number	8VA002-47		Sample Description	Combined Flow Day 5
Extraction Date	1/24/99		Sample Date	1/9/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	030F0101.D	030F0101.D	031F0101.D	031F0101.D	File ID
Acquired on	2/1/99 23:12	2/3/99 1:02	2/1/99 23:23	2/3/99 1:19	Acquired on
Surrogate Recovery	51%	66%	70%	84%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	6.0E-02	1.2E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	8.1E-02	1.5E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.1E-02	9.5E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.1E-02	3.0E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	C6
Laboratory Number	8VA002-48		Sample Description	Combined Flow Day 6
Extraction Date	1/24/99		Sample Date	1/10/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	032F0101.D	032F0101.D	034F0101.D	034F0101.D	File ID
Acquired on	2/1/99 23:34	2/3/99 1:35	2/1/99 23:55	2/3/99 2:08	Acquired on
Surrogate Recovery	78%	66%	76%	104%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	7.8E-02	1.6E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.2E-01	2.1E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	8.1E-02	1.5E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.6E-02	4.1E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	C7
Laboratory Number	8VA002-49		Sample Description	Combined Flow Day 7
Extraction Date	1/24/99		Sample Date	1/11/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	035F0101.D	035F0101.D	036F0101.D	036F0101.D	File ID
Acquired on	2/2/99 12:05	2/3/99 2:24	2/2/99 0:16	2/3/99 2:41	Acquired on
Surrogate Recovery	60%	72%	71%	85%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	7.8E-02	1.6E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.2E-01	2.3E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	8.7E-02	1.6E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.6E-02	4.1E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride elutes very close to carbon disulfide, chlorobenzene coelutes with ethylebenzen, and p-xylene and m-xylene coelute each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		1
Laboratory Number	8VA002-1		Sample Description		Leg 1
Extraction Date	1/24/99			Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	037F0101.D	037F0101.D	038F0101.D	038F0101.D	File ID
Acquired on	2/2/99 0:26	2/3/99 2:57	2/2/99 0:37	2/3/99 3:13	Acquired on
Surrogate Recovery	45%	69%	68%	74%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	6.0E-02	1.2E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.2E-01	2.2E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	9.9E-02	1.8E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.3E-02	6.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.7E-02	3.8E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	2
Laboratory Number	8VA002-2		Sample Description	Leg 2
Extraction Date	1/24/1999		Sample Date	1/5/1999
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/1999		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	039F0101.D	039F0101.D	040F0101.D	040F0101.D	File ID
Acquired on	2/2/1999 0:47	2/3/1999 3:30	2/2/1999 0:58	2/3/1999 3:46	Acquired on
Surrogate Recovery	78%	76%	57%	78%	Surrogate Recovery
Initial Calibration Date	2/1/1999	2/2/1999	2/1/1999	2/2/1999	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	4.8E-02	1.4E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	5.6E+00	1.1E+02	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.1E+01	3.9E+02	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	7.7E+00	1.4E+02	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	6.9E-02	1.8E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	7.5E-02	1.4E+00	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	8.7E-01	1.3E+01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	5.7E-03	1.3E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.5E-02	3.5E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

******The concentrations of chloroform, 1,1,1-trichloroethane and trichloroethylene in the front section were obtained from the following dilution analysis.**

	Dilution Analysis
	Front Section
Column	DB-5*
File ID	008F0101.D
Acquired on	3/1/1999 16:14
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	3
Laboratory Number	8VA002-3		Sample Description	Leg 3
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	041F0101.D	041F0101.D	042F0101.D	042F0101.D	File ID
Acquired on	2/2/99 1:08	2/3/99 4:02	2/2/99 1:19	2/3/99 4:18	Acquired on
Surrogate Recovery	52%	76%	58%	92%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.2E-01	4.4E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	6.1E-01	1.1E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.3E-01	9.9E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.7E-02	7.1E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	3.1E-01	4.5E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.7E-02	4.0E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.1E-02	2.4E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	4
Laboratory Number	8VA002-4		Sample Description	Leg 4
Extraction Date	1/24/1999		Sample Date	1/5/1999
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/1999		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	043F0101.D	043F0101.D	045F0101.D	045F0101.D	File ID
Acquired on	2/2/1999 1:29	2/3/1999 4:35	2/2/1999 1:50	2/3/1999 5:07	Acquired on
Surrogate Recovery	112%	81%	41%	76%	Surrogate Recovery
Initial Calibration Date	2/1/1999	2/2/1999	2/1/1999	2/2/1999	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	3.3E-01	9.6E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	5.7E-02	1.9E+00	<0.0088	<0.30	MEK
CHLOROFORM	3.7E+00	7.6E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	5.1E+00	9.2E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.6E+00	4.8E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	8.5E-01	2.3E+01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	8.6E-01	1.6E+01	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	5.0E-01	7.3E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	1.2E-01	2.7E+00	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	6.1E-01	1.4E+01	<0.0088	<0.20	M-XYLENES
P-XYLENES	2.2E-01	5.0E+00	<0.0088	<0.20	P-XYLENES
O-XYLENE	2.9E-01	6.8E+00	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

****The concentration of 1,1,1-trichloroethane in the front section was obtained from the following dilution analysis.

	Dilution Analysis
	Front Section
Column	DB-5*
File ID	010F0101.D
Acquired on	3/1/1999 16:41
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	5
Laboratory Number	8VA002-5		Sample Description	Leg 5
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	046F0101.D	043F0101.D	047F0101.D	047F0101.D	File ID
Acquired on	2/2/99 2:01	2/3/99 4:35	2/2/99 2:11	2/3/99 5:39	Acquired on
Surrogate Recovery	58%	81%	58%	87%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.5E-01	5.1E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	4.7E-01	8.7E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	4.2E-01	7.8E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.5E-01	4.0E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	1.2E-01	2.3E+00	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	1.5E-01	2.3E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	3.6E-02	8.3E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	2.0E-01	4.6E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	7.5E-02	1.7E+00	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.1E-01	2.5E+00	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	6
Laboratory Number	8VA002-6		Sample Description	Leg 6
Extraction Date	1/24/1999		Sample Date	1/5/1999
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/1999		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	048F0101.D	043F0101.D	049F0101.D	047F0101.D	File ID
Acquired on	2/2/1999 2:22	2/3/1999 4:35	2/2/1999 2:32	2/3/1999 5:39	Acquired on
Surrogate Recovery	73%	85%	64%	68%	Surrogate Recovery
Initial Calibration Date	2/1/1999	2/2/1999	2/1/1999	2/2/1999	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	3.2E-01	9.2E+00	2.3E-02	6.6E-01	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	2.5E-02	8.5E-01	<0.0088	<0.30	MEK
CHLOROFORM	1.9E+00	3.9E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.8E+00	7.0E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.9E+00	3.5E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	6.0E-02	1.5E+00	<0.0090	<0.22	MIBK
TOLUENE	4.1E-01	1.1E+01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	4.1E-01	7.4E+00	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	3.8E-01	5.5E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	7.5E-02	1.7E+00	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	3.9E-01	9.0E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	1.5E-01	3.5E+00	<0.0088	<0.20	P-XYLENES
O-XYLENE	2.0E-01	4.7E+00	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

******The concentrations of chloroform, 1,1,1-trichloroethane and trichloroethylene in the front section were obtained from the following dilution analysis.**

	Dilution Analysis Front Section
Column	DB-5*
File ID	011F0101.D
Acquired on	3/1/1999 16:53
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID		7
Laboratory Number	8VA002-7		Sample Description		Leg 7
Extraction Date	1/24/99			Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	050F0101.D	050F0101.D	051F0101.D	051F0101.D	File ID
Acquired on	2/2/99 2:42	2/3/99 6:28	2/2/99 2:53	2/3/99 6:44	Acquired on
Surrogate Recovery	53%	54%	106%	110%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	7.5E-02	1.5E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	4.2E-02	7.7E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	3.9E-02	7.2E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	8
Laboratory Number	8VA002-8		Sample Description	Leg 8
Extraction Date	1/24/1999		Sample Date	1/5/1999
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/1999		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	052F0101.D	052F0101.D	053F0101.D	051F0101.D	File ID
Acquired on	2/2/1999 3:03	2/3/1999 7:00	2/2/1999 3:14	2/3/1999 6:44	Acquired on
Surrogate Recovery	48%	53%	78%	65%	Surrogate Recovery
Initial Calibration Date	2/1/1999	2/2/1999	2/1/1999	2/2/1999	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	3.9E-02	1.6E+00	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	6.3E-01	1.8E+01	5.1E-02	1.5E+00	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.5E+00	5.0E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	9.8E+00	1.8E+02	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.5E+00	2.8E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	5.4E-02	1.4E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

****The concentrations of chloroform, 1,1,1-trichloroethane and trichloroethylene in the front section were obtained from the following dilution analysis.

	Dilution Analysis
	Front Section
Column	DB-5*
File ID	012F0101.D
Acquired on	3/1/1999 17:05
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	9
Laboratory Number	8VA002-9		Sample Description	Leg 9
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	056F0101.D	056F0101.D	054F0101.D	054F0101.D	File ID
Acquired on	2/2/99 3:45	2/3/99 8:05	2/2/99 3:24	2/3/99 7:32	Acquired on
Surrogate Recovery	83%	90%	42%	69%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	5.1E-02	1.5E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	5.0E-01	1.0E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	7.6E-01	1.4E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.1E-01	9.4E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.5E-02	6.6E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	10
Laboratory Number	8VA002-10		Sample Description	Leg 10
Extraction Date	1/24/1999		Sample Date	1/5/1999
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/1999		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	057F0101.D	057F0101.D	058F0101.D	058F0101.D	File ID
Acquired on	2/2/1999 3:55	2/3/1999 8:21	2/2/1999 4:06	2/3/1999 8:37	Acquired on
Surrogate Recovery	70%	70%	111%	67%	Surrogate Recovery
Initial Calibration Date	2/1/1999	2/2/1999	2/1/1999	2/2/1999	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	1.0E+00	3.0E+01	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	5.4E-02	1.5E+00	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	3.3E+00	6.7E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.9E+00	7.2E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.6E+00	3.0E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	3.6E-02	9.6E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

******The concentrations of chloroform, 1,1,1-trichloroethane and trichloroethylene in the front section were obtained from the following dilution analysis.**

	Dilution Analysis
	Front Section
Column	DB-5*
File ID	013F0101.D
Acquired on	3/1/1999 17:17
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	11
Laboratory Number	8VA002-11		Sample Description	Leg 11
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	059F0101.D	059F0101.D	060F0101.D	060F0101.D	File ID
Acquired on	2/2/99 4:16	2/3/99 8:53	2/2/99 4:26	2/3/99 9:10	Acquired on
Surrogate Recovery	124%	84%	82%	89%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	1.3E-02	5.3E-01	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	8.1E-02	2.3E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	8.3E-01	1.7E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.9E-01	7.1E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.5E-01	1.0E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.6E-02	4.3E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	5.4E-02	8.0E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	12
Laboratory Number	8VA002-12		Sample Description	Leg 12
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	061F0101.D	062F0101.D	062F0101.D	062F0101.D	File ID
Acquired on	2/2/99 4:37	2/3/99 9:26	2/2/99 8:43	2/3/99 9:43	Acquired on
Surrogate Recovery	110%	79%	110%	69%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	1.2E-02	5.2E-01	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	4.5E-02	1.3E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.6E-01	5.0E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.7E-01	6.8E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.4E-01	4.4E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.6E-02	4.3E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		13
Laboratory Number	8VA002-13		Sample Description		Leg 13
Extraction Date	1/24/1999			Sample Date	1/5/1999
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/1999		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	063F0101.D	063F0101.D	064F0101.D	062F0101.D	File ID
Acquired on	2/2/1999 9:06	2/3/1999 10:00	2/2/1999 9:17	2/3/1999 9:43	Acquired on
Surrogate Recovery	123%	73%	132%	102%	Surrogate Recovery
Initial Calibration Date	2/1/1999	2/2/1999	2/1/1999	2/2/1999	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	6.0E-02	2.5E+00	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	5.6E-01	1.6E+01	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	2.8E-02	9.4E-01	<0.0088	<0.30	MEK
CHLOROFORM	2.3E+00	4.7E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.6E+00	6.5E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	9.3E-01	1.7E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	9.0E-02	2.4E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	9.0E-02	1.3E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

****The concentrations of chloroform and 1,1,1-trichloroethane in the front section were obtained from the following dilution analysis.

	Dilution Analysis Front Section
Column	DB-5*
File ID	014F0101.D
Acquired on	3/1/1999 17:29
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	14
Laboratory Number	8VA002-14		Sample Description	Leg 14
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	065F0101.D	065F0101.D	067F0101.D	067F0101.D	File ID
Acquired on	2/2/99 9:27	2/3/99 10:33	2/2/99 9:48	2/3/99 11:23	Acquired on
Surrogate Recovery	108%	106%	129%	95%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	5.1E-02	1.5E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	3.8E-01	7.9E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	4.6E-01	8.3E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.8E-01	5.2E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.9E-02	7.6E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	15
Laboratory Number	8VA002-15		Sample Description	Leg 15
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	068F0101.D	068F0101.D	069F0101.D	069F0101.D	File ID
Acquired on	2/2/99 9:59	2/3/99 11:40	2/2/99 10:09	2/3/99 11:57	Acquired on
Surrogate Recovery	99%	106%	66%	70%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	9.4E-01	1.9E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.1E+00	1.9E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.2E+00	2.2E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	1.2E-02	2.9E-01	<0.0090	<0.22	MIBK
TOLUENE	1.1E-01	2.9E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	8.7E-02	1.6E+00	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	3.6E-01	5.3E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	9.6E-03	2.2E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	5.7E-02	1.3E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	2.2E-02	5.0E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	3.0E-02	6.8E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	16
Laboratory Number	8VA002-16		Sample Description	Leg 16
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	070F0101.D	070F0101.D	071F0101.D	071F0101.D	File ID
Acquired on	2/2/99 10:20	2/3/99 0:14	2/2/99 10:31	2/3/99 12:32	Acquired on
Surrogate Recovery	59%	52%	52%	57%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	1.3E-01	2.7E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.2E-01	4.0E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.7E-01	5.1E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	4.8E-02	1.3E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	3.6E-02	6.6E-01	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	9.6E-02	1.4E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	6.3E-03	1.5E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	3.6E-02	8.3E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	1.4E-02	3.2E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.8E-02	4.1E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecomppunds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		17
Laboratory Number	8VA002-17		Sample Description		Leg 17
Extraction Date	1/24/99		Sample Date		1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	072F0101.D	072F0101.D	073F0101.D	073F0101.D	File ID
Acquired on	2/2/99 10:41	2/3/99 0:49	2/2/99 10:52	2/3/99 13:07	Acquired on
Surrogate Recovery	75%	78%	84%	102%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	9.3E-02	1.9E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.0E-01	3.6E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.9E-01	3.5E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	4.2E-02	1.1E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	2.6E-02	4.7E-01	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.8E-02	7.1E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	8.4E-03	1.9E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	4.8E-02	1.1E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	1.9E-02	4.4E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	2.7E-02	6.3E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	18
Laboratory Number	8VA002-18		Sample Description	Leg 18
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	074F0101.D	072F0101.D	075F0101.D	075F0101.D	File ID
Acquired on	2/2/99 11:03	2/3/99 0:49	2/2/99 11:14	2/3/99 13:44	Acquired on
Surrogate Recovery	118%	130%	117%	138%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	1.7E-01	3.6E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.5E-01	2.7E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.2E-01	2.2E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.4E-02	3.6E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	19
Laboratory Number	8VA002-19		Sample Description	Leg 19
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	076F0101.D	076F0101.D	078F0101.D	078F0101.D	File ID
Acquired on	2/2/99 11:25	2/3/99 2:03	2/2/99 11:47	2/3/99 14:04	Acquired on
Surrogate Recovery	86%	94%	99%	91%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	1.4E-02	4.8E-01	<0.0088	<0.30	MEK
CHLOROFORM	2.0E-01	4.1E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	5.3E-01	9.8E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.1E-01	3.8E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	3.9E-02	1.0E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	3.6E-02	6.6E-01	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	1.2E-01	1.8E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	7.8E-03	1.8E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	4.5E-02	1.0E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	1.8E-02	4.1E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	2.4E-02	5.6E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	20
Laboratory Number	8VA002-20		Sample Description	Leg 20
Extraction Date	1/24/99		Sample Date	1/5/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	60

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	079F0101.D	076F0101.D	080F0101.D	080F0101.D	File ID
Acquired on	2/2/99 11:58	2/3/99 2:03	2/2/99 0:09	2/3/99 15:17	Acquired on
Surrogate Recovery	123%	129%	115%	120%	Surrogate Recovery
Initial Calibration Date	2/1/99	2/2/99	2/1/99	2/2/99	Initial Calibration Date
Sequence	02-01-99.SEQ	02-02-99.SEQ	02-01-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	2.3E-02	6.5E-01	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	1.6E-02	4.5E-01	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	6.8E-01	1.4E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	5.3E-01	9.8E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	3.8E-01	7.0E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.6E-02	4.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	6.9E-02	1.0E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

		Field Sample ID	21
Laboratory Number	9VA002-21	Sample Description	Leg 21
Extraction Date	1/24/1999	Sample Date	1/6/1999
CS_2 Used in Extraction (mL)	3	Air Volume (Liters)	10
Date of Sample receipt	1/18/1999	Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	011F0101.D	061F0101.D	012F0101.D	062F0101.D	File ID
Acquired on	1/30/1999 13:33	2/3/1999 15:36	1/30/1999 13:44	2/3/1999 15:54	Acquired on
Surrogate Recovery	86%	103%	72%	78%	Surrogate Recovery
Initial Calibration Date	1/30/1999	2/2/1999	1/30/1999	2/2/1999	Initial Calibration Date
Sequence	01-30-99.SEQ	02-02-99.SEQ	01-30-99.SEQ	02-02-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0062	<0.35	<0.0062	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1 DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	3.7E-01	7.8E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.5E-01	6.4E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.8E-01	3.3E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	5.9E-02	1.8E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.8E-02	7.1E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only. Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID		22
Laboratory Number	8VA002-22		Sample Description		Leg 22
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	013F0101.D	083F0101.D	014F0101.D	084F0101.D	File ID
Acquired on	1/30/99 13:56	2/3/99 16:13	1/30/99 14:08	2/3/99 16:31	Acquired on
Surrogate Recovery	86%	103%	88%	109%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/2/99	1/30/99	2/2/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-02-99.SEQ	01-30-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	1.9E-01	3.8E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.4E-01	4.4E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.3E-01	2.5E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	3.3E-02	8.8E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.2E-02	6.2E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	23
Laboratory Number	8VA002-23		Sample Description	Leg 23
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	015F0101.D	085F0101.D	016F0101.D	084F0101.D	File ID
Acquired on	1/30/99 14:20	2/3/99 16:49	1/30/99 14:32	2/3/99 16:31	Acquired on
Surrogate Recovery	56%	62%	69%	69%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/2/99	1/30/99	2/2/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-02-99.SEQ	01-30-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	4.5E-02	9.2E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.2E-01	4.1E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.2E-01	2.2E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.0E-02	5.3E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	6.9E-02	1.0E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.7E-02	3.9E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	24
Laboratory Number	8VA002-24		Sample Description	Leg 24
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	017F0101.D	085F0101.D	018F0101.D	084F0101.D	File ID
Acquired on	1/30/99 14:44	2/3/99 16:49	1/30/99 14:56	2/3/99 16:31	Acquired on
Surrogate Recovery	90%	81%	77%	64%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/2/99	1/30/99	2/2/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-02-99.SEQ	01-30-99.SEQ	02-02-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	4.4E-01	9.1E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	4.1E-01	7.5E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.2E-01	4.0E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.0E-02	5.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	5.1E-02	7.5E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	25
Laboratory Number	8VA002-25		Sample Description	Leg 25
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	019F0101.D	009F0101.D	020F0101.D	010F0101.D	File ID
Acquired on	1/30/99 15:08	2/3/99 21:36	1/30/99 15:20	2/3/99 21:54	Acquired on
Surrogate Recovery	83%	92%	83%	78%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	2.8E-02	8.0E-01	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	1.6E-02	4.6E-01	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	6.4E-01	1.3E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.1E+00	1.9E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.0E-01	3.8E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.5E-02	4.1E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	9.9E-02	1.5E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	26
Laboratory Number	8VA002-26		Sample Description	Leg 26
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	023F0101.D	011F0101.D	024F0101.D	012F0101.D	File ID
Acquired on	1/30/99 15:56	2/3/99 22:11	1/30/99 16:07	2/3/99 22:28	Acquired on
Surrogate Recovery	58%	56%	78%	54%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	3.6E-02	1.5E+00	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	1.4E-01	3.9E+00	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	5.4E-02	1.5E+00	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	1.5E-02	5.1E-01	<0.0088	<0.30	MEK
CHLOROFORM	1.5E+00	3.1E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.2E+00	2.3E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	8.5E-01	1.6E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.6E-01	4.2E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	1.2E-01	2.1E+00	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	2.2E-01	3.2E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	7.5E-02	1.7E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	2.7E-02	6.2E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	4.1E-02	9.5E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		27
Laboratory Number	8VA002-27		Sample Description		Leg 27
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	025F0101.D	013F0101.D	026F0101.D	014F0101.D	File ID
Acquired on	1/30/99 16:19	2/3/99 22:45	1/30/99 16:31	2/3/99 23:02	Acquired on
Surrogate Recovery	68%	69%	71%	81%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	6.0E-02	1.2E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.4E-01	2.6E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.4E-02	1.0E+00	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.2E-02	5.8E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	2.2E-02	4.0E-01	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	1.1E-01	1.6E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	2.1E-02	4.8E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.3E-02	3.0E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	28
Laboratory Number	8VA002-28		Sample Description	Leg 28
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	027F0101.D	015F0101.D	028F0101.D	016F0101.D	File ID
Acquired on	1/30/99 16:43	2/3/99 23:19	1/30/99 16:55	2/3/99 23:36	Acquired on
Surrogate Recovery	66%	69%	87%	81%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	7.8E-02	1.6E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	7.2E-01	1.3E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.1E-02	9.5E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	8.4E-03	2.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.8E-02	7.1E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

		Field Sample ID	29
Laboratory Number	8VA002-29	Sample Description	Leg 29
Extraction Date	1/24/1999	Sample Date	1/6/1999
CS_2 Used in Extraction (mL)	3	Air Volume (Liters)	10
Date of Sample receipt	1/18/1999	Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	029F0101.D	018F0101.D	030F0101.D	019F0101.D	File ID
Acquired on	1/30/1999 17:07	2/4/1999 0:10	1/30/1999 17:20	2/4/1999 0:27	Acquired on
Surrogate Recovery	75%	70%	78%	77%	Surrogate Recovery
Initial Calibration Date	1/30/1999	2/3/1999	1/30/1999	2/3/1999	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	6.9E-02	2.9E+00	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	4.3E-01	1.2E+01	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	3.3E-02	9.3E-01	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.1E+00	4.4E+01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.9E+00	7.2E+01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	5.9E-01	1.1E+01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.9E-01	5.0E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	2.6E-01	3.8E+00	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	1.0E-02	2.4E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.5E-02	3.4E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	1.1E-02	2.4E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.3E-02	3.0E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

****The concentrations of chloroform and 1,1,1-trichloroethane in the front section were obtained from the following dilution analysis.

	Dilution Analysis Front Section
Column	DB-5*
File ID	015F0101.D
Acquired on	3/1/1999 17:40
Initial Calibration Date	3/1/1999
Sequence	03-01-99.SEQ

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	30
Laboratory Number	8VA002-30		Sample Description	Leg 30
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	60

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	031F0101.D	020F0101.D	032F0101.D	021F0101.D	File ID
Acquired on	1/30/99 17:32	2/4/99 0:44	1/30/99 17:44	2/4/99 1:01	Acquired on
Surrogate Recovery	70%	65%	57%	57%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	3.9E-02	8.0E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	9.0E-02	1.6E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	4.8E-02	8.9E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.4E-02	6.4E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.5E-02	6.6E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.6E-02	3.6E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.2E-02	2.7E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	31
Laboratory Number	8VA002-31		Sample Description	Leg 31
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	034F0101.D	022F0101.D	035F0101.D	023F0101.D	File ID
Acquired on	1/30/99 18:12	2/4/99 1:18	1/30/99 18:24	2/4/99 1:35	Acquired on
Surrogate Recovery	67%	59%	79%	87%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. In***	Total Amount	Conc. In***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	3.9E-02	8.0E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	7.8E-02	1.4E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	4.2E-02	7.8E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.4E-02	3.6E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	32
Laboratory Number	8VA002-32		Sample Description	Leg 32
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	036F0101.D	024F0101.D	037F0101.D	023F0101.D	File ID
Acquired on	1/30/99 18:36	2/4/99 1:52	1/30/99 18:48	2/4/99 1:35	Acquired on
Surrogate Recovery	60%	75%	82%	83%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	8.7E-02	1.8E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.1E-01	2.0E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.3E-02	6.1E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.2E-02	6.2E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.7E-02	4.0E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.1E-02	2.5E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID	33
Laboratory Number	8VA002-33		Sample Description	Leg 33
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	60

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	038F0101.D	024F0101.D	037F0101.D	023F0101.D	File ID
Acquired on	1/30/99 18:59	2/4/99 1:52	1/30/99 18:48	2/4/99 1:35	Acquired on
Surrogate Recovery	62%	68%	78%	69%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount	Front Section Conc. in***	Back Section Total Amount	Back Section Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	6.6E-02	1.3E+00	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	1.4E-01	2.6E+00	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	4.5E-02	1.2E+00	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	4.5E-02	8.2E-01	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	5.4E-02	8.0E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	7.2E-03	1.7E-01	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	4.5E-02	1.0E+00	<0.0088	<0.20	M-XYLENES
P-XYLENES	1.4E-02	3.1E-01	<0.0088	<0.20	P-XYLENES
O-XYLENE	2.8E-02	6.4E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	34
Laboratory Number	8VA002-34		Sample Description	Leg 34
Extraction Date	1/24/99		Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	040F0101.D	024F0101.D	037F0101.D	023F0101.D	File ID
Acquired on	1/30/99 19:24	2/4/99 1:52	1/30/99 18:48	2/4/99 1:35	Acquired on
Surrogate Recovery	69%	59%	86%	94%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.3E-02	6.0E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.9E-02	3.5E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	8.4E-03	2.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		35
Laboratory Number	8VA002-35		Sample Description		Leg 35
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50
	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	042F0101.D	031F0101.D	043F0101.D	032F0101.D	File ID
Acquired on	1/30/99 19:47	2/4/99 3:51	1/30/99 19:59	2/4/99 4:08	Acquired on
Surrogate Recovery	72%	65%	64%	83%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-30-99.SEQ	02-03-99.SEQ	01-30-99.SEQ	02-03-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.3E-02	6.0E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	2.0E-02	3.6E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	1.2E-02	3.2E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.2E-02	2.7E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	9.0E-03	2.1E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		36
Laboratory Number	8VA002-36		Sample Description		Leg 36
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	002F0101.D	033F0101.D	003F0101.D	034F0101.D	File ID
Acquired on	1/30/99 21:00	2/4/99 4:25	1/30/99 21:10	2/4/99 4:41	Acquired on
Surrogate Recovery	53%	55%	64%	83%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-03-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.4E-02	4.4E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride elutes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		37
Laboratory Number	8VA002-37		Sample Description		Leg 37
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	004F0101.D	035F0101.D	005F0101.D	036F0101.D	File ID
Acquired on	1/30/99 21:26	2/4/99 4:58	1/30/99 21:36	2/4/99 5:15	Acquired on
Surrogate Recovery	55%	47%	67%	56%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-03-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. In*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. In*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	4.5E-02	8.2E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		38
Laboratory Number	8VA002-38		Sample Description		Leg 38
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	006F0101.D	037F0101.D	007F0101.D	038F0101.D	File ID
Acquired on	1/30/99 21:48	2/4/99 5:32	1/30/99 22:00	2/4/99 5:49	Acquired on
Surrogate Recovery	59%	48%	50%	40%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-03-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. In*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. In*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	3.3E-02	6.7E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	5.1E-02	9.3E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	2.1E-02	5.7E-01	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	4.5E-02	6.6E-01	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	1.6E-02	3.7E-01	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	1.1E-02	2.6E-01	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		39
Laboratory Number	8VA002-39		Sample Description		Leg 39
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		60

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	008F0101.D	040F0101.D	009F0101.D	041F0101.D	File ID
Acquired on	1/30/99 22:12	2/4/99 6:22	1/30/99 22:23	2/4/99 6:39	Acquired on
Surrogate Recovery	58%	53%	70%	68%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	3.3E-02	6.0E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		40
Laboratory Number	8VA002-40		Sample Description		Leg 40
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	010F0101.D	042F0101.D	009F0101.D	041F0101.D	File ID
Acquired on	1/30/99 22:35	2/4/99 6:56	1/30/99 22:23	2/4/99 6:39	Acquired on
Surrogate Recovery	44%	49%	61%	68%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-03-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	<0.0220	<0.40	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		41
Laboratory Number	8VA002-41		Sample Description		Leg 41
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	013F0101.D	044F0101.D	014F0101.D	045F0101.D	File ID
Acquired on	1/30/99 23:10	2/4/99 7:29	1/30/99 23:22	2/4/99 7:46	Acquired on
Surrogate Recovery	55%	50%	68%	69%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-03-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	<0.0220	<0.40	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds. However, all thecompounds reported must be confirmed by the other column.

Analytical Result of Charcoal Tube

			Field Sample ID		42
Laboratory Number	8VA002-42		Sample Description		Leg 42
Extraction Date	1/24/99			Sample Date	1/6/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	1/18/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	015F0101.D	046F0101.D	016F0101.D	016F0101.D	File ID
Acquired on	1/30/99 23:34	2/4/99 8:03	1/30/99 23:45	2/2/99 21:11	Acquired on
Surrogate Recovery	120%	110%	63%	59%	Surrogate Recovery
Initial Calibration Date	1/30/99	2/3/99	1/30/99	2/3/99	Initial Calibration Date
Sequence	01-31-99.SEQ	02-03-99.SEQ	01-31-99.SEQ	02-02-99.SEQ	
	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	<0.0224	<0.46	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	<0.0220	<0.40	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.

Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.
However, all thecompounds reported must be confirmed by the other column.

CW-1

Analytical Result of Charcoal Tube

		Field Sample ID	CW-1
Laboratory Number	9VA004-01	Sample Description	Combined Flow Week 1
Extraction Date	2/4/1999	Sample Date	1/16/1999
CS_2 Used in Extraction (mL)	3	Air Volume (Liters)	10
Date of Sample receipt	2/1/1999	Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	009F0101.D	009F0101.D	010F0101.D	010F0101.D	File ID
Acquired on	2/20/1999 20:13	2/4/1999 14:45	2/20/1999 20:24	2/4/1999 15:07	Acquired on
Surrogate Recovery	62%	118%	73%	118%	Surrogate Recovery
Initial Calibration Date	2/20/1999	2/4/1999	2/20/1999	2/4/1999	Initial Calibration Date
Sequence	02-18-99.SEQ	02-04-99.SEQ	02-18-99.SEQ	02-04-99.SEQ	

Target Compounds	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1 DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.6E-02	5.4E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.5E-02	4.8E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	<0.0242	<0.45	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25°C and pressure 760mmHg

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen, and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID	CW-2
Laboratory Number	8VA004-01		Sample Description	Combined Flow Week 2
Extraction Date	2/4/99		Sample Date	1/22/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)	10
Date of Sample receipt	2/1/99		Sampling Time (Minutes)	50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	012F0101.D	011F0101.D	013F0101.D	012F0101.D	File ID
Acquired on	2/20/99 20:48	2/4/99 15:25	2/20/99 21:00	2/4/99 15:43	Acquired on
Surrogate Recovery	68%	96%	56%	105%	Surrogate Recovery
Initial Calibration Date	2/20/99	2/4/99	2/20/99	2/4/99	Initial Calibration Date
Sequence	02-18-99.SEQ	02-04-99.SEQ	02-18-99.SEQ	02-04-99.SEQ	

	Front Section Total Amount Per Tube, mg	Front Section Conc. in*** ppm (v/v)	Back Section Total Amount Per Tube, mg	Back Section Conc. in*** ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	1.5E-02	3.0E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	2.3E-02	4.2E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	1.4E-02	2.7E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Analytical Result of Charcoal Tube

			Field Sample ID		CW-3
Laboratory Number	8VA004-01		Sample Description		Combined Flow Week 3
Extraction Date	2/4/99			Sample Date	1/29/99
CS_2 Used in Extraction (mL)	3		Air Volume (Liters)		10
Date of Sample receipt	2/1/99		Sampling Time (Minutes)		50

	Front Section	Front Section	Back Section	Back Section	
Column	DB-5*	DB-WAX**	DB-5*	DB-WAX**	Column
File ID	014F0101.D	013F0101.D	015F0101.D	014F0101.D	File ID
Acquired on	2/20/99 21:12	2/4/99 16:01	2/20/99 21:23	2/4/99 16:18	Acquired on
Surrogate Recovery	65%	111%	74%	106%	Surrogate Recovery
Initial Calibration Date	2/20/99	2/4/99	2/20/99	2/4/99	Initial Calibration Date
Sequence	02-18-99.SEQ	02-04-99.SEQ	02-18-99.SEQ	02-04-99.SEQ	

	Front Section	Front Section	Back Section	Back Section	
	Total Amount	Conc. in***	Total Amount	Conc. in***	
Target Compounds	Per Tube, mg	ppm (v/v)	Per Tube, mg	ppm (v/v)	Target Compounds
ACETONE	<0.0082	<0.35	<0.0082	<0.35	ACETONE
1,1-DICHLOROETHENE	<0.0118	<0.30	<0.0118	<0.30	1,1-DICHLOROETHENE
METHYLENE CHLORIDE	<0.0220	<0.63	<0.0220	<0.63	METHYLENE CHLORIDE
1,1-DICHLOROETHANE	<0.0128	<0.36	<0.0128	<0.36	1,1-DICHLOROETHANE
MEK	<0.0088	<0.30	<0.0088	<0.30	MEK
CHLOROFORM	2.7E-02	5.5E-01	<0.0224	<0.46	CHLOROFORM
1,1,1-TRICHLOROETHANE	4.5E-02	8.2E-01	<0.0220	<0.40	1,1,1-TRICHLOROETHANE
TRICHLOROETHYLENE	3.3E-02	6.1E-01	<0.0242	<0.45	TRICHLOROETHYLENE
MIBK	<0.0090	<0.22	<0.0090	<0.22	MIBK
TOLUENE	<0.0078	<0.21	<0.0078	<0.21	TOLUENE
1,1,2-TRICHLOROETHANE	<0.0216	<0.40	<0.0216	<0.40	1,1,2-TRICHLOROETHANE
TETRACHLOROETHENE	<0.0416	<0.61	<0.0416	<0.61	TETRACHLOROETHENE
CHLOROBENZENE	<0.0136	<0.30	<0.0136	<0.30	CHLOROBENZENE
ETHYLBENZENE	<0.0056	<0.13	<0.0056	<0.13	ETHYLBENZENE
M-XYLENES	<0.0088	<0.20	<0.0088	<0.20	M-XYLENES
P-XYLENES	<0.0088	<0.20	<0.0088	<0.20	P-XYLENES
O-XYLENE	<0.0088	<0.20	<0.0088	<0.20	O-XYLENE

* DB-5 column is a 30 meter long, 0.53 mm OD 1.5um DB-5ms film thickness megabore column.

** DB-WAX is a 30 meters long, 0.53mm OD 1.5um DB-WAX film thickness megabore column.

*** The conc. in ppm (v/v) is based on the assumption that the temperature of samling is 25^{0}C and pressure 760mmHg.

1. The lowest calibration curve is 2.5ng/uL, which is the detection limit used.
2. DB-WAX was used to quantitate methylene chloride, chlororbenzene, ethylbenzene, m, p and o-xylenes only.
Since methylene chloride eludes very close to carbon disulfide, chlorobenzene coeludes with ethylebenzen,
and p-xylene and m-xylene coelude each other in DB-5 column. DB-5 quantitates the rest of compounds.

Appendix B

Detailed Phenol Analytical Results

OSHA METHOD 32 RESULTS

Client Name :	Versar, Inc.	Date Sampled :	01/07 & 08 /99
Project Name :	EEC Site	Date Received :	01/18/99
Client Contact :	Charles Gaffney	Date Extracted :	01/27/99
Project #	N/A	Date Analyzed	01/29/99
C-O-C #:	N/A		

Sequence#: 012999B

Cleint ID # :	1 : Leg 1		2 : Leg 2		3 : Leg 3		4 : Leg 4		5 : Leg 5		6 : Leg 6		PQL	CRL	MDL
Lab ID # :	8VA003-01		8VA003-02		8VA003-03		8VA003-04		8VA003-05		8VA003-06		Mg / Tube	Mg / Tube	Mg / Tube
Data File # :	105-0101.D		106-0101.D		107-0101.D		108-0101.D		109-0101.D		110-0101.D		8.00E-04	5.00E-04	1.26E-04
	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF			
ANALYTE													PQL	CRL	MDL
Phenol	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ppmv*	ppmv*	ppmv*
													0.021	0.013	0.0033

Cleint ID # :	7 : Leg 7		8 : Leg 8		9 : Leg 9		10 : Leg 10		11 : Leg 11		12 : Leg 12		PQL	CRL	MDL
Lab ID # :	8VA003-07		8VA003-08		8VA003-09		8VA003-10		8VA003-11		8VA003-12		Mg / Tube	Mg / Tube	Mg / Tube
Data File # :	111-0101.D		112-0101.D		113-0101.D		114-0101.D		118-0101.D		119-0101.D		8.00E-04	5.00E-04	1.26E-04
	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF			
													PQL	CRL	MDL
Phenol	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ppmv*	ppmv*	ppmv*
													0.021	0.013	0.0033

DF - Dilution Factor

*The concentration is calculated by ideal gas law, PV=NRT. During sampling, we assume that the pressure, P, is 1 atm, the volume, V, 10 liters air sampled and ambient temperature, T, 298°K. N is the mole number of phenol and calculated by dividing weight of phenol by its molecular weight, which is 94.

Reporting Parameters : Values greater than or equal too the Certified Reporting Limit (CRL), but less than or equal to the highest calibration point are reported. Lowest values reported fall between the Practical Quantitation Limit (PQL) and the CRL. The CRL is greater than the Method Detection Limit (MDL) and is the lowest calibration point. Therefore, values between the MDL and CRL are reported as Not Detected (ND).

[Calculation Note : (#ug/ml x 2ml) / 1000ug/mg) = # mg]

Chemist: Alfred Biggs ONSITE ENVIRONMENTAL LABORATORIES, INC. OSHA32Q XLS

OSHA METHOD 32 RESULTS

Client Name :	Versar, Inc.	Date Sampled :	01/08/99
Project Name :	EEC Site	Date Received :	01/18/99
Client Contact :	Charles Gaffney	Date Extracted :	01/27/99
Project #	N/A	Date Analyzed :	01/30/99
C-O-C #:	N/A		

Sequence#: 012999B

Client ID # :	13 : Leg 13		14 : Leg 14		15 : Leg 15		16 : Leg 16		17 : Leg 17		18: Leg 18		PQL	CRL	MDL
Lab ID # :	8VA003-13		8VA003-14		8VA003-15		8VA003-16		8VA003-17		8VA003-18		Mg / Tube	Mg / Tube	Mg / Tube
Data File # :	120-0101.D		121-0101.D		122-0101.D		123-0101.D		124-0101.D		125-0101.D		8.00E-04	5.00E-04	1.26E-04
	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF			
ANALYTE													PQL	CRL	MDL
Phenol	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ppmv*	ppmv*	ppmv*
													0.021	0.013	0.0033

Client ID # :	19 : Leg 19		20 : Leg 20		21 : Leg 21		22 : Leg 22		23 : Leg 23		24 : Leg 24		PQL	CRL	MDL
Lab ID # :	8VA003-19		8VA003-20		8VA003-21		8VA003-22		8VA003-23		8VA003-24		Mg / Tube	Mg / Tube	Mg / Tube
Data File # :	126-0101.D		127-0101.D		131-0101.D		132-0101.D		133-0101.D		134-0101.D		8.00E-04	5.00E-04	1.26E-04
	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF	Result Mg / Tube	DF			
													PQL	CRL	MDL
Phenol	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ppmv*	ppmv*	ppmv*
													0.021	0.013	0.0033

*The concentration is calculated by ideal gas law, PV=NRT. During sampling, we assume that the pressure, P, is 1 atm, the volume, V, 10 liters air sampled and ambient temperature, T, 298°K. N is the mole number of phenol and calculated by dividing weight of phenol by its molecular weight, which is 94.

DF- Dilution Factor

Reporting Parameters : Values greater than or equal too the Certified Reporting Limit (CRL), but less than or equal to the highest calibration point are reported. Lowest values reported fall between the Practical Quantitation Limit (PQL) and the CRL. The CRL is greater than the Method Detection Limit (MDL) and is the lowest calibration point. Therefore, values between the MDL and CRL are reported as Not Detected (ND).

[Calculation Rate : (#ug/ul x 2ml) / 1000ug/mg) = # mg]

Chemist: Alfred Biggs ONSITE ENVIRONMENTAL LABORATORY OSHA32Q.XLS

OSHA METHOD 32 RESULTS

Client Name : Versar, Inc.
Project Name : EEC Site
Client Contact : Charles Gaffney
Project # N/A
C-O-C #: N/A

Date Sampled : 01/08/99
Date Received : 01/18/99
Date Extracted : 01/27/99
Date Analyzed : 01/30/99

Sequence#: 012999B

Cleint ID #:	25 : Leg 25	26 : Leg 26	27 : Leg 27	28 : Leg 28	29 : Leg 29	30 : Leg 30	PQL	CRL	MDL
Lab ID #:	8VA003-25	8VA003-26	8VA003-27	8VA003-28	8VA003-29	8VA003-30	Mg / Tube	Mg / Tube	Mg / Tube
Data File #:	135-0101.D	136-0101.D	137-0101.D	138-0101.D	139-0101.D	140-0101.D	8.00E-04	5.00E-04	1.26E-04
	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube			
	DF	DF	DF ppmv	DF	DF ppmv	DF			
ANALYTE							PQL	CRL	MDL
Phenol	1 ND	1 ND	1 5.96E-04	1 ND	1 7.80E-04	1 ND	ppmv*	ppmv*	ppmv*
			0.015		0.020		0.021	0.013	0.0033

Cleint ID #:	31 : Leg 31	32 : Leg 32	33 : Leg 33	34 : Leg 34	35 : Leg 35	36 : Leg 36	PQL	CRL	MDL
Lab ID #:	8VA003-31	8VA003-32	8VA003-33	8VA003-34	8VA003-35	8VA003-36	Mg / Tube	Mg / Tube	Mg / Tube
Data File #:	144-0101.D	145-0101.D	146-0101.D	147-0101.D	148-0101.D	149-0101.D	8.00E-04	5.00E-04	1.26E-04
	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube	Result Mg / Tube			
	DF	DF ppmv	DF ppmv	DF ppmv	DF	DF ppmv			
							PQL	CRL	MDL
Phenol	1 ND	1 7.34E-04	1 7.36E-04	1 5.74E-04	1 ND	1 1.64E-03	ppmv*	ppmv*	ppmv*
		0.019	0.019	0.015		0.043	0.021	0.013	0.0033

*The concentration is calculated by ideal gas law, PV=NRT. During sampling, we assume that the pressure, P, is 1 atm, the volume, V, 10 liters air sampled and ambient temperature, T, 298°K. N is the mole number of phenol and calculated by dividing weight of phenol by its molecular weight, which is 94.
DF- Dilution Factor

Reporting Parameters : Values greater than or equal too the Certified Reporting Limit (CRL), but less than or equal to the highest calibration point are reported. Lowest values reported fall between the Practical Quantitaion Limit (PQL) and the CRL. The CRL is greater than the Method Detection Limit (MDL) and is the lowest calibration point. Therefore, values between the MDL and CRL are reported as Not Detected (ND).

[Calculation Note : (#ug/ml x 2ml) / 1000ug/mg) = # mg]

Chemist: Alfred Biggs

ONSITE ENVIRONMENTAL LABORATORIES, INC.

OSHA32Q.XLS

OSHA METHOD 32 RESULTS

Client Name :	Versar, Inc.	Date Sampled :	01/05, 06, 07, 08, 09, 10 and 11/99
Project Name :	EEC Site	Date Received :	01/18/99
Client Contact :	Charles Gaffney	Date Extracted :	01/27/99
Project # :	N/A	Date Analyzed	01/30/99
C-O-C #:	N/A		

Sequence#: 012999B

Cleint ID # :	37 : Leg 37	38 : Leg 38	39 : Leg 39	40 : Leg 40	41 : Leg 41	42 : Leg 42	C-1	PQL	CRL	MDL
Lab ID # :	8VA003-37	8VA003-38	8VA003-39	8VA003-40	8VA003-41	8VA003-42	8VA003-43	Mg / Tube	Mg / Tube	Mg / Tube
Data File # :	150-0101.D	151-0101.D	152-0101.D	153-0101.D	157-0101.D	158-0101.D	159-0101.D	8.00E-04	5.00E-04	1.26E-04
	Result	Result	Result	Result	Result	Result	Result			
	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube			
	DF	DF	DF ppmv	DF ppmv	DF	DF				
ANALYTE										
								PQL	CRL	MDL
Phenol	1 ND	1 ND	1 5.98E-04	1 7.78E-04	1 ND	1 ND	ND	ppmv*	ppmv*	ppmv*
			0.016	0.020				0.021	0.013	0.0033

Cleint ID # :	C-2	C-3	C-4	C-5	C-6	C-7	Blank	PQL	CRL	MDL
Lab ID # :	VA003-44	VA003-45	VA003-46	VA003-47	VA003-48	VA003-49	VA003-50	Mg / Tube	Mg / Tube	Mg / Tube
Data File # :	160-0101.D	161-0101.D	162-0101.D	163-0101.D	164-0101.D	165-0101.D	166-0101.D	8.00E-04	5.00E-04	1.26E-04
	Result	Result	Result	Result	Result	Result	Result			
	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube	Mg / Tube			
	DF	DF	DF ppmv	DF ppmv	DF	DF	DF			
								PQL	CRL	MDL
Phenol	1 ND	1 ND	1 6.64E-04	1 8.30E-04	1 ND	1 ND	1 ND	ppmv*	ppmv*	ppmv*
			0.017	0.022				0.021	0.013	0.0033

*The concentration is calculated by ideal gas law, PV=NRT. During sampling, we assume that the pressure, P, is 1 atm, the volume, V, 10 liters air sampled and ambient temperature, T, 298°K. N is the mole number of phenol and calculated by dividing weight of phenol by its molecular weight, which is 94.

DF- Dilution Factor

Reporting Parameters : Values greater than or equal too the Certified Reporting Limit (CRL), but less than or equal to the highest calibration point are reported. Lowest values reported fall between the Practical Quantitation Limit (PQL) and the CRL. The CRL is greater than the Method Detection Limit (MDL) and is the lowest calibration point. Therefore, values between the MDL and CRL are reported as Not Detected (ND).

[Calculation Note : (Mg/ml x 2ml) / 1000ug/mg) = 0 mg]

Chemist: Alfred Biggs ONSITE ENVIRONMENTAL LABORATORY, INC. OSHA32Q.XLS

OSHA METHOD 32 RESULTS

Client Name	Versar, Inc.	Date Sampled :	1/15, 22 and 29/1999
Project Name :	EEC Site	Date Received :	02/01/99
Client Contact :	Charles Gaffney	Date Extracted :	02/04/99
Project # :	N/A	Date Analyzed :	02/21/99
C-O-C #:	N/A		

Sequence#: 022199.S

Cleint ID #:	CW-1		CW-2		CW-3			PQL	CRL	MDL
Lab ID #:	8VA004-04		8VA004-05		8VA004-06			Mg / Tube	Mg / Tube	Mg / Tube
Data File #:	114-0101.D		115-0101.D		116-0101.D			8.00E-04	5.00E-04	1.26E-04
	Result		Result		Result					
	Mg / Tube		Mg / Tube		Mg / Tube					
	DF		DF		DF		DF			
ANALYTE										
								PQL	CRL	MDL
Phenol	1	ND	1	ND	1	ND	1	ppmv*	ppmv*	ppmv*
								0.021	0.013	0.0033

*The concentration is calculated by ideal gas law, PV=NRT. During sampling, we assume that the pressure, P, is 1 atm, the volume, V, 10 liters air sampled and ambient temperature, T, 298°K. N is the mole number of phenol and calculated by dividing weight of phenol by its molecular weight, which is 94.

DF- Dilution Factor

Reporting Parameters : Values greater than or equal too the Certified Reporting Limit (CRL), but less than or equal to the highest calibration point are reported. Lowest values reported fall between the Practical Quantitaion Limit (PQL) and the CRL. The CRL is greater than the Method Detection Limit (MDL) and is the lowest calibration point. Therefore, values between the MDL and CRL are reported as Not Detected (ND).

[Calculation Note : (0mg/ml x 2ml) / 1000mg/mg) = 0 mg]

Chemist: Alfred Biggs ONSITE ENVIRONMENTAL LABORATORY, INC. OSHA32Q.XLS