336025 FILE COPY

SUMMARY REPORT

OF

SOIL REMEDIATION ACTIVITIES

Performed on the

"General Switch" Property

located at
20 Industrial Place
in the
City of Middletown
Orange County, New York

Volume 2 of 2

Submitted: September 23, 1999
Reprinted: April 2004

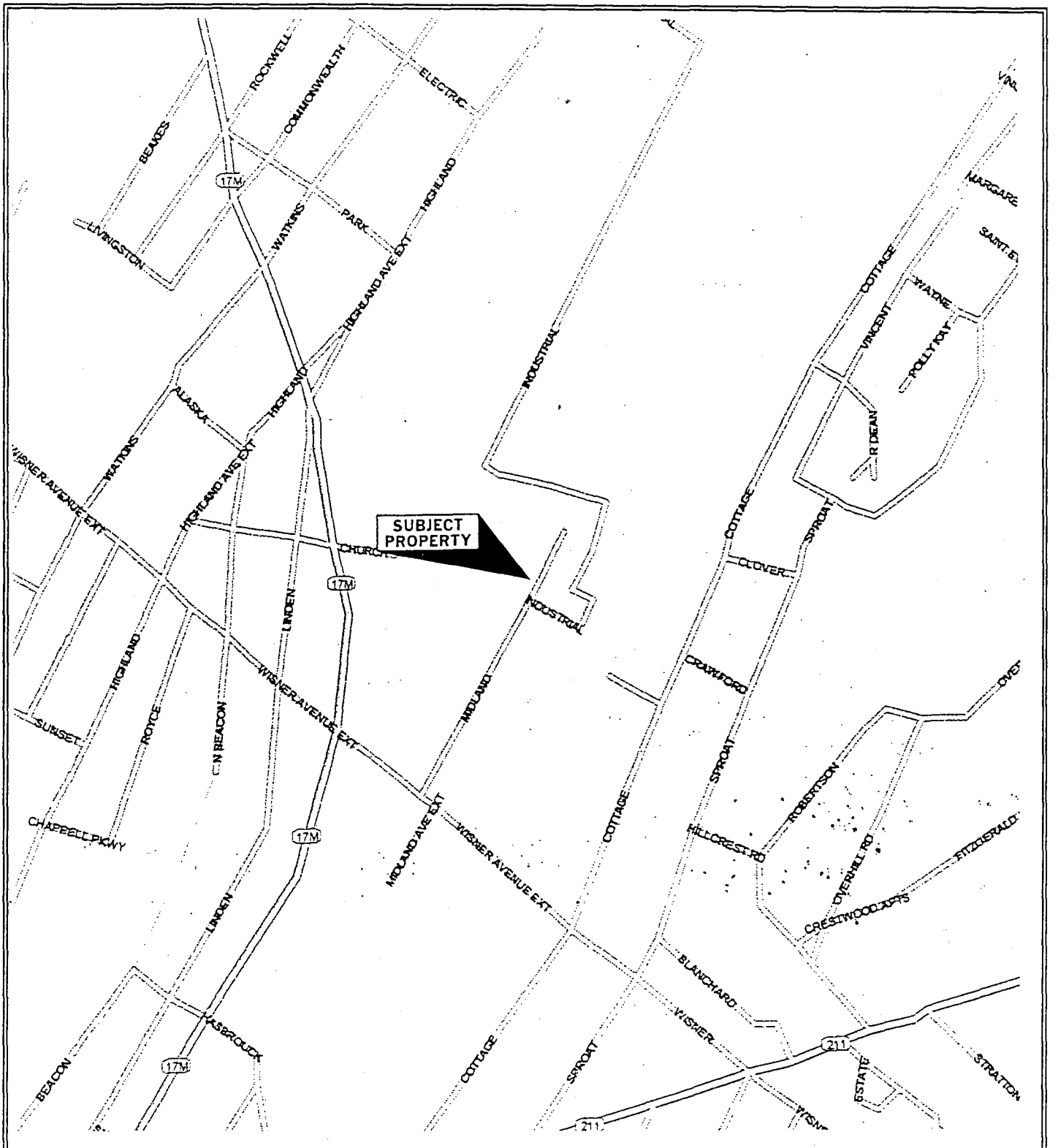
Prepared By:

ECOSYSTEMS STRATEGIES, INC.
24 DAVIS AVENUE
POUGHKEEPSIE, NEW YORK 12603
(845) 452-1658

ESI File Number: LM97145.40R

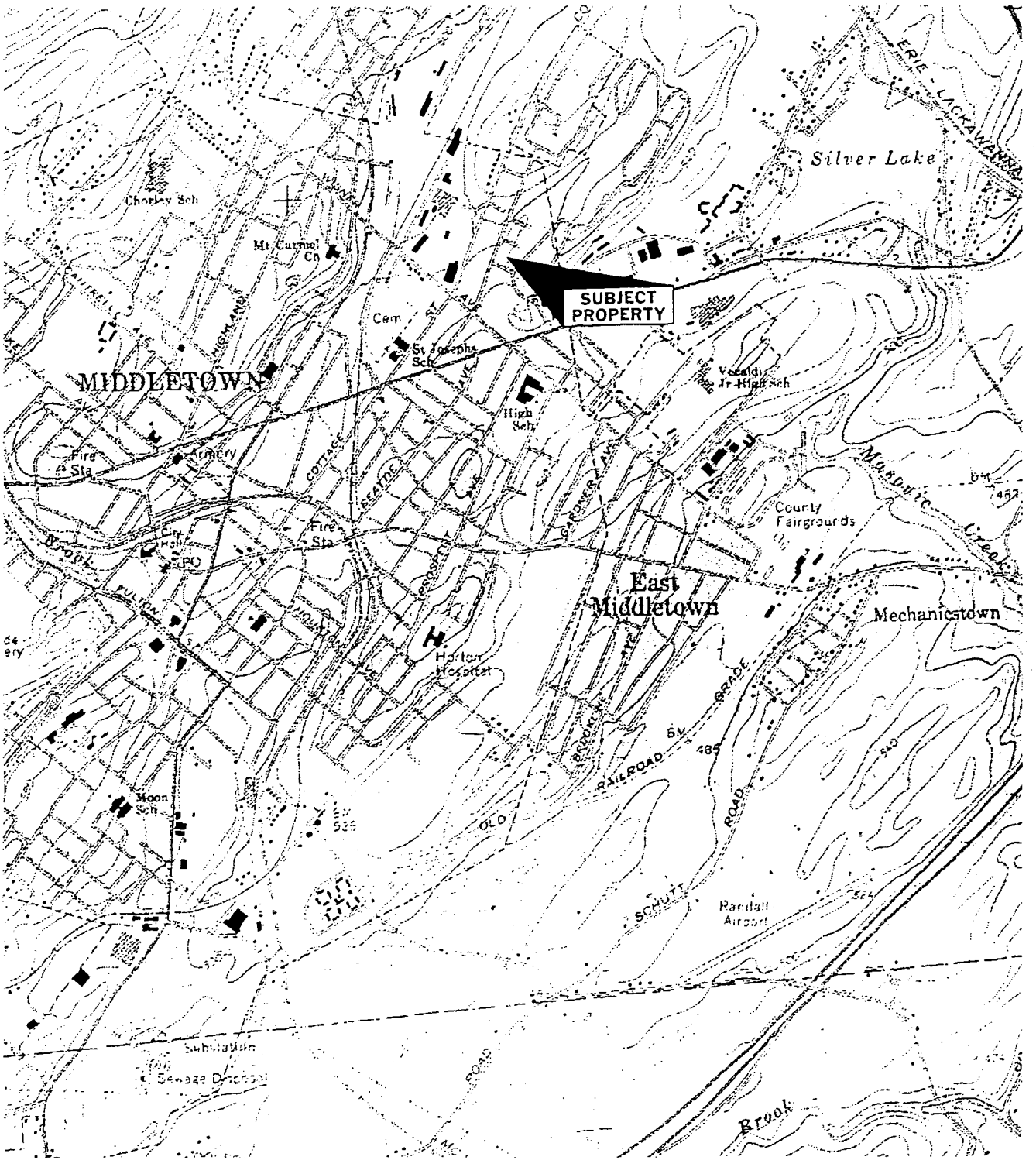
APPENDIX A

Maps



Source: DeLorme Street Atlas USA, Version 6.0

Site Location Map General Switch Property 20 Industrial Place City of Middletown, Orange County, New York	N	ESI File: LM97145.40 Date: September 1999 Appendix A



Source: U.S. Department of the Interior Geological Survey Topographic Map of the Middletown, New York Quadrangle, dated 1969 (photorevised 1976)

U.S.G.S. Topographic Map

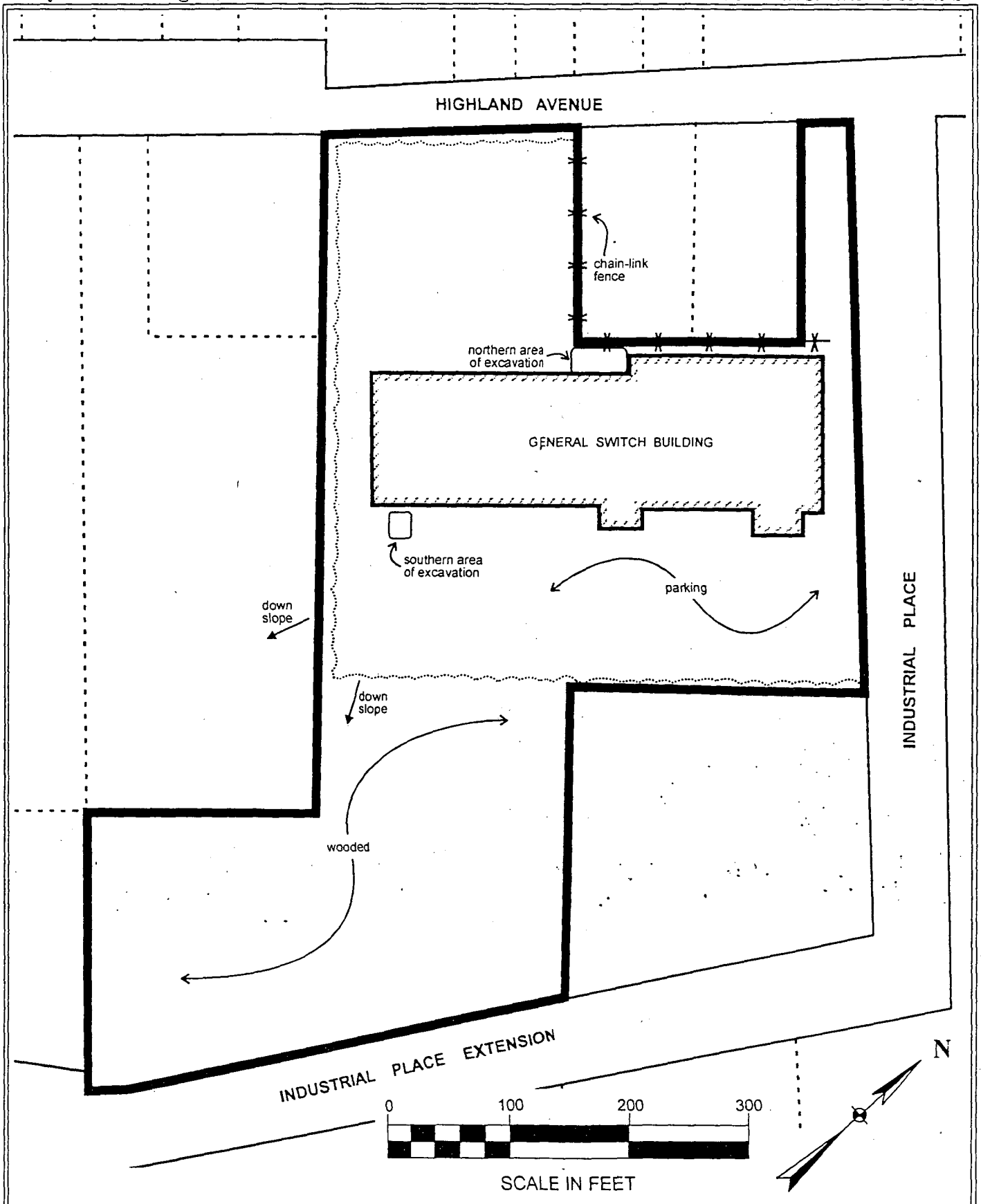
General Switch Property
20 Industrial Place
City of Middletown, Orange County, New York

N

ESI File: LM97145.40

Date: September 1999

Scale: 1:24000



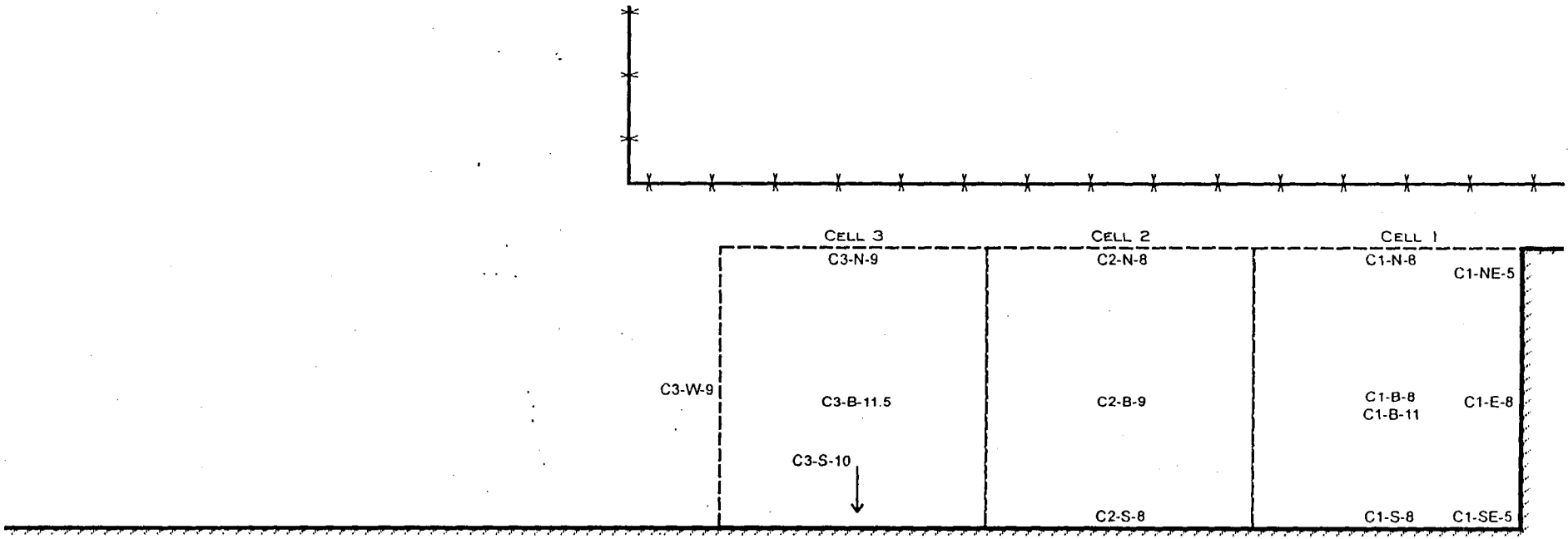
All feature locations are approximate.
Map sources: Shakti Consultants, Inc. 1991 and Lawler, Matusky & Skelly Engineers, LLP, 1998.

Site Property Map

General Switch Site
City of Middletown, Orange County, New York

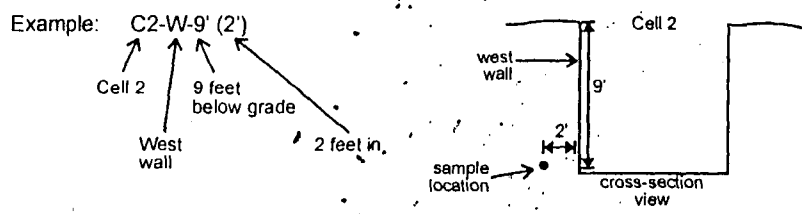
Legend:
subject property border

ESI File: LM97145.40
September 1999
Appendix A

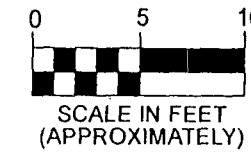


NOTE:

Sample names indicate the exact location from where the sample was taken, specifying cell, wall, feet below grade, and depth of coring in from wall.



Sample names with no coring depth indicate a surface sample from the side of the cell.



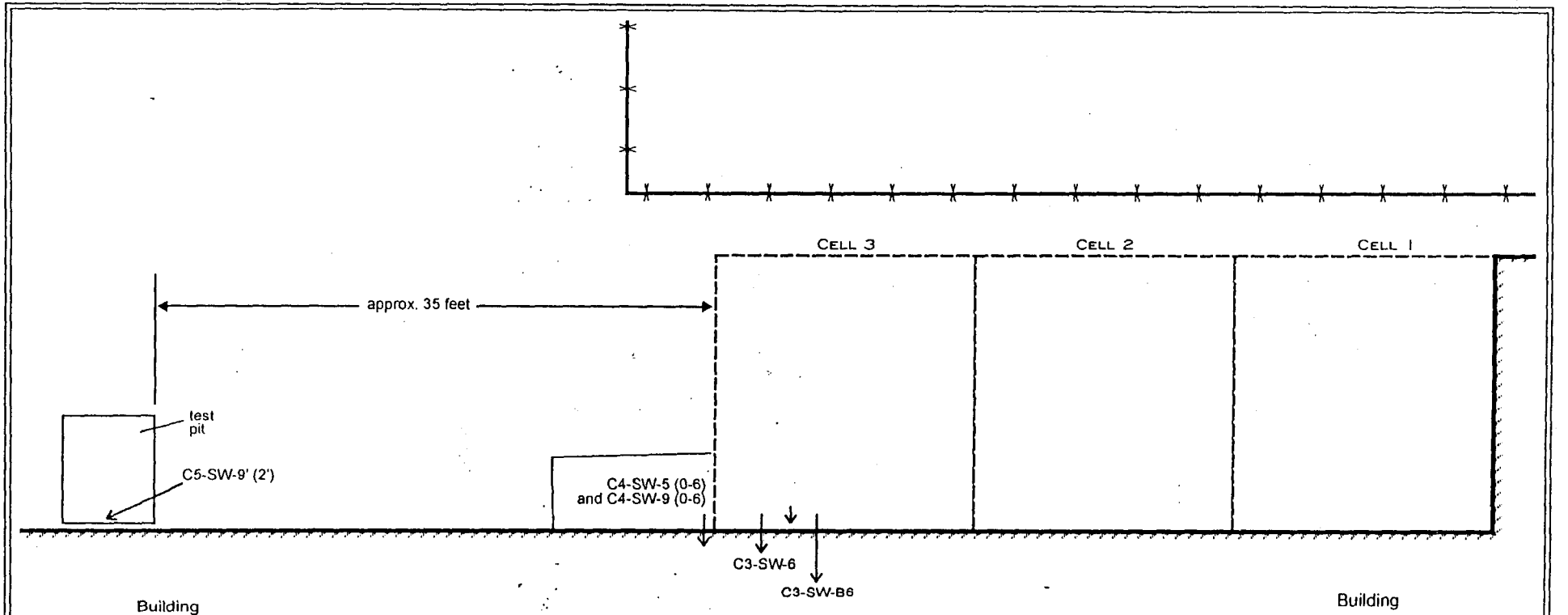
Feature locations are approximate.

Northern Excavation - Sample Location Map
September 21 - 24, 1998
"General Switch" Property
City of Middletown, Orange County, New York

Legend:
- area of excavation
- soil sample ●
- chain-link fence

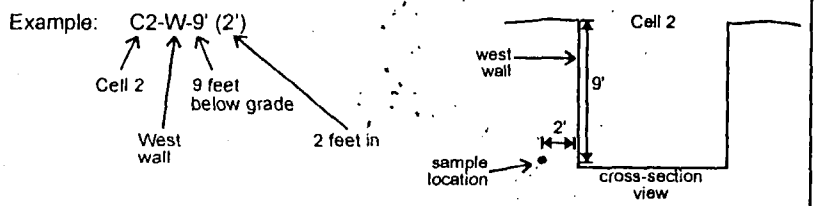
N

ESI File Number: LM97145.40
September 1999
Scale: 1" ≃ 9' (approximately)
Appendix A

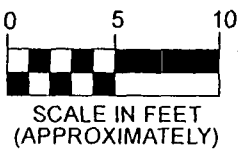


NOTE:

Sample names indicate the exact location from where the sample was taken, specifying cell, wall, feet below grade, and depth of coring in from wall.



Sample names with no coring depth indicate a surface sample from the side of the cell.



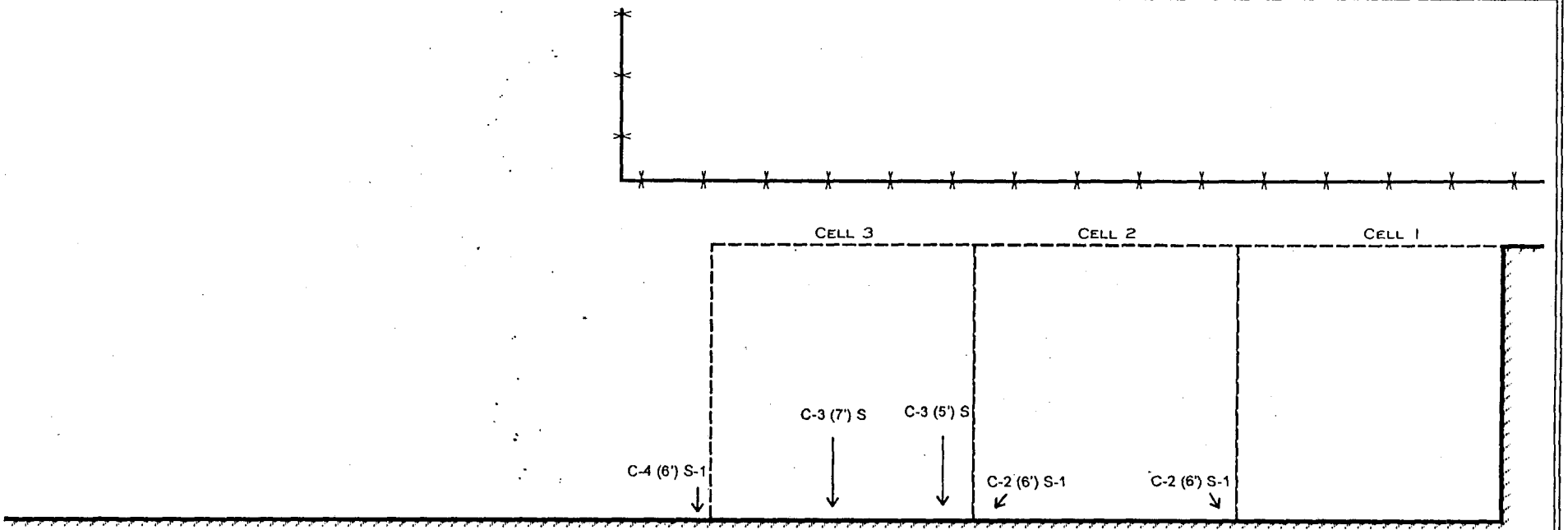
Feature locations are approximate.

Northern Excavation - Sample Location Map
April 27, 1999
"General Switch" Property
City of Middletown, Orange County, New York

Legend:
- area of excavation
- soil sample ●
- chain-link fence

N

ESI File Number: LM97145.40
September 1999
Scale: 1" ≃ 9' (approximately)
Appendix A

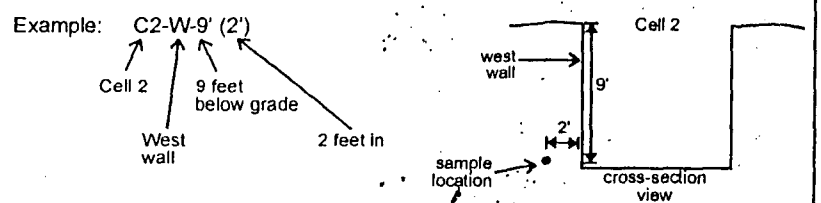


Building

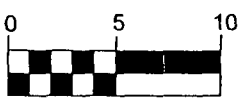
Building

NOTE:

Sample names indicate the exact location from where the sample was taken, specifying cell, wall, feet below grade, and depth of coring in from wall.



Sample names with no coring depth indicate a surface sample from the side of the cell.



SCALE IN FEET (APPROXIMATELY)

Northern Excavation - Sample Location Map
September 1, 1999
"General Switch" Property
City of Middletown, Orange County, New York

Legend:
- area of excavation
- soil sample ●
- chain-link fence

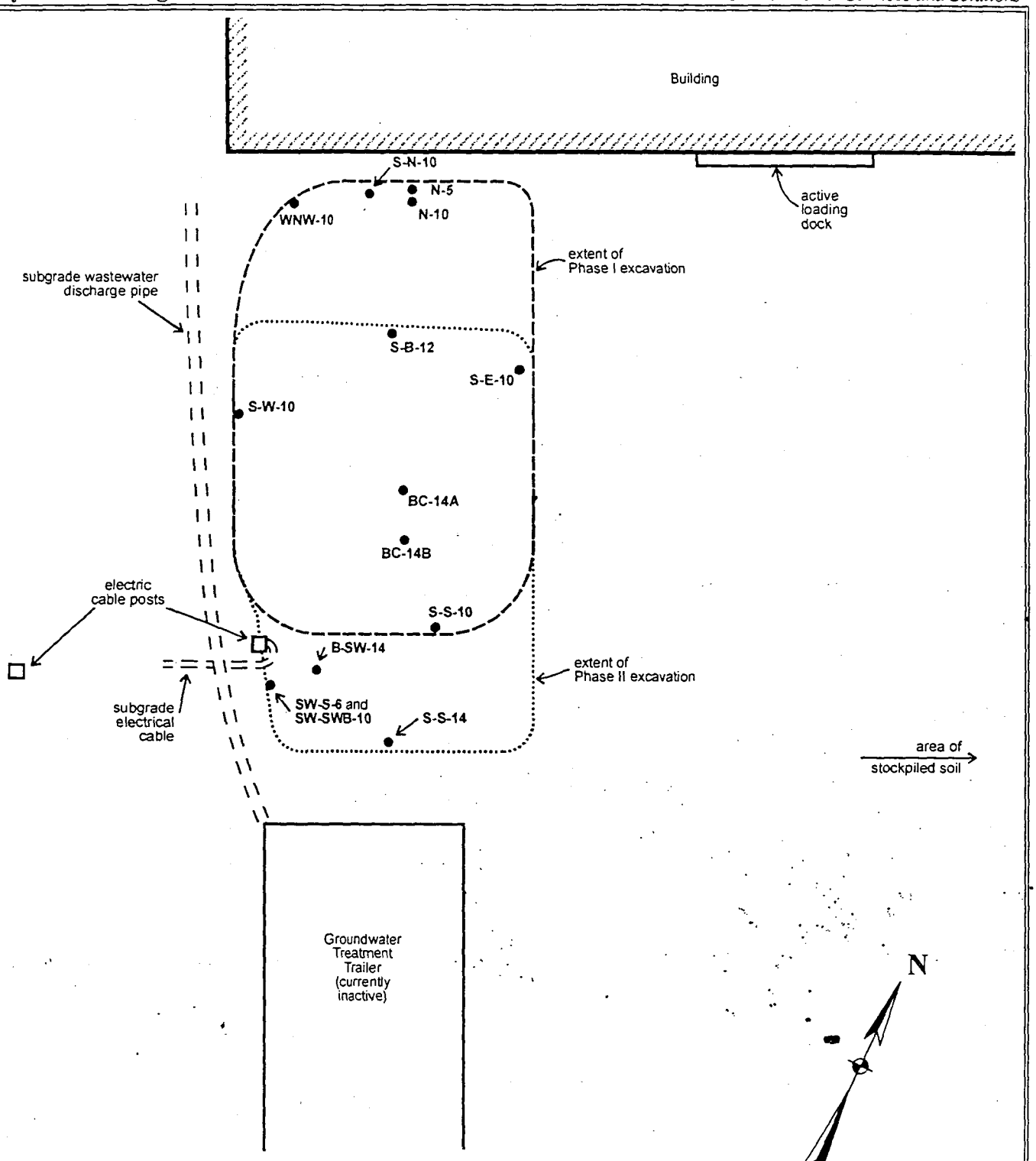
N

ESI File Number: LM97145.40

September 1999

Scale: 1" ≃ 9' (approximately)

Appendix A



All feature locations are approximate.

Sample Location Map - Southern Excavation

General Switch Site
City of Middletown, Orance County, New York

Legend:

soil sample •

ESI File: LM97145.40

September 1999

Not to Scale

Appendix A

APPENDIX B

Analytical Data Tables

Table 1: Summary of Post-Excavation Sampling Phase I- Northern Excavation Conducted at the "General Switch Site" located at 20 Industrial Place in the City of Middletown, Orange County, New York. All results shown in mg/kg (ppm).

Date Sampled	Sample Identification	VOCs		
		Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene
CELL 1				
September 21, 1998	C1-E-8	**470**	ND	ND
	C1-N-8	7.8	0.35J	ND
	C1-B-8	**1,100**	25	ND
	C1-S-8	**11,000**	79J	ND
September 24, 1998	C1-B-11	**540**	ND	ND
	C1-SE-5	**2,500**	ND	ND
	C1-NE-5	**93**	1.2J	3.4
CELL 2				
September 24, 1998	C2-N-8	0.88	ND	ND
	C2-B-9	**160**	ND	ND
	C2-S-8	**86**	ND	ND
CELL 3				
September 24, 1998	C3-B-11.5	**16**	ND	ND
	C3-S-10	**9,300**	ND	ND
	C3-W-9	1.5	ND	ND
	C3-N-9	5.6	ND	ND

Notes: J = estimated
Bold indicates exceedance of 12 ppm site-specific clean-up standard for PCE
Each sample ID indicates depth at which sample was selected

F:\DATA\WPDATA\PROJECTS\LM97145\LM97145.40\CHARTS\SOIL SAMPLE RESULTS NORTHERN EXCAVATION PHASE I.WPD

Table 2: Summary of Post-Excavation Sampling Phase II- Northern Excavation Conducted at the "General Switch Site" located at 20 Industrial Place in the City of Middletown, Orange County, New York. All results shown in mg/kg (ppm).

Date Sampled	Sample Identification	VOCs		
		Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene
CELL 2				
September 1, 1999	C-2 (6') S-1	.079	ND	ND
	C-2 (6') S-2	.350	ND	ND
CELL 3				
April 27, 1999	C3-SW-6' (2')	**420**	ND	ND
	C3-SW-B6' (2.5')	7.2	ND	ND
September 1, 1999	C-3 (5') S	.890	.031	ND
	C-3 (7') S	.053	ND	ND
CELL 4				
April 27, 1999	C4-SW-5' (0-6")	.160	ND	ND
	C4-SW-9' (0-6")	.300	.018	.009
September 1, 1999	C-4 (6') S-1	.322	ND	ND
CELL 5				
April 27, 1999	C5-SW-9' (2')	.050	ND	ND

Notes: J = estimated
Bold indicates exceedance of 12 ppm site-specific clean-up standard for PCE
Each sample ID indicates depth at which sample was selected

F:\DATA\WPDATA\PROJECTS\LM97145\LM97145.40\CHARTS\SOIL SAMPLE RESULTS NORTHERN EXCAVATION PHASE II.WPD

Table 3: Summary of Post-Excavation Sampling Phase I- Southern Excavation conducted at the "General Switch Site" located at 20 Industrial Place in the City of Middletown, Orange County, New York. All results shown in mg/kg (ppm).

Date Sampled	Sample Identification	VOCs		
		Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene
October 21, 1998	S-S-10'	**32.0**	ND	ND
	S-E-10'	7.5	ND	ND
	S-B-12'	**55.0**	ND	.60J
	S-W-10'	1.40	ND	ND
	S-N-10'	**19.0**	ND	ND
	FB	ND	ND	ND

Notes: J = estimated
Bold indicates exceedance of 12 ppm site-specific clean-up standard for PCE
Each sample ID indicates depth at which sample was selected

F:\DATA\WPDATA\PROJECTS\LM971 45\LM971 45.40\CHARTS\SOIL SAMPLE RESULTS SOUTHERN EXCAVATION PHASE I.WPD

Table 4: Summary of Post-Excavation Sampling Phase II - Southern Excavation conducted at the "General Switch Site" located at 20 Industrial Place in the City of Middletown, Orange County, New York. All results shown in mg/kg (ppm).

Date Sampled	Sample Identification	VOCs		
		Tetrachloroethene	Trichloroethene	Total-1,2-Dichloroethene
November 19, 1998	II-S-BC-14A	**15.0**	ND	ND
	II-S-BC-14B	3.4	ND	1.9
	II-S-N-5	0.74	ND	ND
	II-S-N-10	**37.00**	ND	ND
	II-S-WNW-10	**50.00**	ND	2.1
	II-S-B-SW-14	0.750	ND	ND
	II-S-S-14	0.750	ND	ND
	II-SWSWB-10	**70.00**	ND	ND
	II-SW 5-6	**46.00**	ND	ND

Notes: J = estimated
Bold indicates exceedance of 12 ppm site-specific clean-up standard for PCE
Each sample ID indicates depth at which sample was selected

F:\DATA\WPDATA\PROJECTS\LM97145\LM97145.40\CHARTS\SOIL SAMPLE RESULTS SOUTHERN EXCAVATION PHASE II.WPD

APPENDIX C

Laboratory Data Packages

North "Hot Spot" Phase I

Data Package

Hampton-Clarke, Inc.
veritech laboratories

175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

ECOSYSTEMS STRATEGIES

Format: NYDOH-R

Project: Middletown
PO Number: LM97145.40

Samples submitted on: 9/21/98

AA72482
AA72483
AA72484
AA72485

Date: 10/15/98
HCl Project: 09221412

TABLE OF CONTENTS

Veritech Sample Key

15-Oct-98

Lab#	SampleID
AA72482	C1-E-8
AA72483	C1-N-8
AA72484	C1-B-8
AA72485	C1-S-8

Veritech, 175 Route 46 West, Fairfield, NJ 07004
A Division of HAMPTON-CLARKE, Inc. NJDEPE #14622

CHAIN OF CUSTODY RECORD

PHONE (973) 244-9770
FAX (973) 244-9787

CUSTOMER INFORMATION

CUSTOMER: Ecosystems Strategies, Inc.
ADDRESS: 60 Wehrall Ave., Pok. NY
TELEPHONE: 914-452-1658
PROJECT: Middletown, NY
PROJECT MANAGER: Zywia Wojnar
PROJECT LOCATION: Middletown, NY
STATE: NY
PO NUMBER: LM97145.40

REPORT INFORMATION

SEND REPORT TO:
Zywia Wojnar
Ecosystems Strategies, Inc.
Poughkeepsie, NY 12603
60 Wehrall Ave.

SEND INVOICE TO: Johanna Kurtz

PROJECT INFORMATION

TURNAROUND (CONFIRM RUSH TAT'S WITH LAB) by 10 AM
STANDARD _____ RUSH ✓ 24hr
DELIVERABLES (PLEASE CIRCLE):
(STANDARD) ISRA BUST
WASTE REGULATORY
OTHER (Specify) _____

ANALYTICAL REQUESTS

LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE (C)	SAMPLE TYPE: GRAB (G)	SAMPLE MATRIX	NO. OF BOTTLES: H_2SO_4	HNO_3	HCL	NaOH	$ZnAc + NaOH$	Ascorbic	NONE	OTHER	ANALYSIS
AA72482	C1-A-8	9/21/98	1405		✓	S							1		8010
72483	C1-N-8	9/21/98	1410		✓	S							1		8010
72484	C1-B-8	9/21/98	1415		✓	S							1		8010
72485	C1-S-8	9/21/98	1420		✓	S							1		8010

SAMPLER CERTIFIES THAT EACH SAMPLE RECEIVED PROPER FIELD PRESERVATION (IF REQUIRED) (INITIALS) _____

SAMPLE HAZARDS: ☐ FLAMMABLE ☐ SKIN IRRITANT ☐ NON-HAZARD ☐ UNKNOWN ☐ NOXIOUS FUMES Hazardous PCE vapors

SPECIAL INSTRUCTIONS: results due via fax by 10AM 9/22/98 914-485-7083

TEMPERATURE UPON RECEIPT: 4.3°C

		DATE/TIME			DATE/TIME
Relinquished by:		9/21/98	1600	Received by:	9/21/98 1600
Agent of:				Agent of:	
Relinquished by:		9/21/98	1730	Received by:	9/21 1734
Agent of:				Agent of:	Veritech

CONDITION UPON RECEIPT FORM

Veritech

Date Received: 9-21-98 Filed By: TF

Client: Ecosystem Project/Account: Middletown, NY

INITIAL CONDITIONS

YES	NO		
✓		[1]	Is there a corresponding Chain of Custody included with the samples?
✓		[2]	Are the samples in a container such as a cooler or ice chest?
	✓	[3]	Are the custody seals intact? IF NO, please circle one of the following: (missing) broken N.A.
4.3 °C		[4]	Please specify the temperature inside the container.

SAMPLE INFORMATION

YES	NO		
✓		[5]	Are the samples properly refrigerated (where required)?
✓		[6]	Are the samples within holding times for the parameters listed on the COC? If NO, list parameters and associated samples:
✓		[7]	Are all of the sample bottles intact? If NO, specify sample numbers below: broken: leaking:
✓		[8]	Are all of the sample labels or numbers legible? If NO, specify:
✓		[9]	Do the contents of the container match the COC? If NO, specify:
✓		[10]	Is there enough sample sent for the analyses listed on the COC? If NO, specify:
		[11]	Are the samples preserved correctly (see Preservation Form for actual pH readings)?
		[12]	Are all soil VO(NJ) samples properly preserved in methanol with the correct soil weights (8g - 12g) and accompanied by dry soil?

OTHER

[13] Specify:

CORRECTIVE ACTIONS

NO.	ACTION

1072

Veritec

INTERNAL CHAIN OF CUSTODY RECORD FOR GC/MS

TEST	SAMPLE NO:	REMOVED FROM: RFRG	DATE	TIME	RETURNED TO*: RFRG	DATE	TIME	SIGNATURE
VO	72092, 093, 463, 085, 083	3	9/24/98	1000	3	9/24/98	1230	JC
↓	AA72091, 089, 080, 081, 462	↓	↓	↓	↓	↓	↓	↓
↓	AA72254, 258, 405, 255, 403	↓	↓	↓	↓	↓	↓	↓
↓	AA72257, 253, 404, 252, 256,	↓	↓	↓	↓	↓	↓	↓
↓	AA72401, 402, 400, 71776,	↓	↓	↓	↓	↓	↓	↓
↓	AA72660, 658, 659, 657, 661,	↓	↓	↓	↓	↓	↓	↓
↓	AA72662	↓	↓	↓	↓	↓	↓	↓
VO	AA72077, 075, 516, 517, 519,	3	9/24/98	1300				JC
↓	AA72520, 515, 518	↓	↓	↓				↓
VO	AA72692, 690, 693, 658, 662	3	9/25/98	1400	3	9/25/98	1500	JC
↓	AA72659, 660, 657, 661, 691, 7188	↓	↓	↓	↓	↓	↓	↓
VO	EFI-1447, 71531, 72241,	3	9/25/98	1200				JC
↓	AA72242, 243, 244, 250,	↓	↓	↓				↓
↓	AA72204, 205, 377, 580, 581	↓	↓	↓				↓
↓	AA72615, 626, 627, 688, 689	↓	↓	↓				↓
VO	AA71879, 72201, 202, 632	3	9/25/98	1100	3	9/25/98	1500	JC
↓	AA72633, 634, 680, 203, 488,	↓	↓	↓	↓	↓	↓	↓
↓	AA72631	↓	↓	↓	↓	↓	↓	↓
VO	AA72619, 620, 621, 622, 623, 624	3	9/26/98	1400				JC
↓	AA72625, 682, 617, 618, 684,	↓	↓	↓				↓
↓	AA72685, 686, 687, 385, 519,	↓	↓	↓				↓
↓	AA72681, 683, 614, 616, 393	↓	↓	↓				↓
VO	AA71777, 778, 779, 780,	3	9/28/98	1100				JC
↓	AA72245, 377, 204, 205, 076,	↓	↓	↓				↓
↓	AA72753, 759, 760, 761, ~~374,~~ JC	↓	↓	↓				↓
↓	~~AA72376~~ JC AA72730, 732	↓	↓	↓				↓
↓	AA72731, 733, 734	↓	↓	↓				↓
VO	AA72247, 413, 249, 203, 406, 631	3	9/28/98	1430				JC
↓	AA72378, 503, 505, 506, 507, 508	↓	↓	↓				↓
↓	AA72374, 376, 502, 484, 483,	↓	↓	↓				↓
↓	AA72482, 485, 71776, 72461	↓	↓	↓				↓
↓	AA72082, 090, 248, 246, 483, 484	↓	↓	↓				↓
VO	AA72506, 082, 090, 247, 246,	3	9/29/98	1130	3	9/29/98	1315	JC
↓	AA72248, 461, 507, 631, 613,	↓	↓	↓	↓	↓	↓	↓
↓	AA72607, 608, 609, 610, 611,	↓	↓	↓	↓	↓	↓	↓
↓	AA72612, 707, 708, 709, 705,	↓	↓	↓	↓	↓	↓	↓
↓	AA72706, 704, 238	↓	↓	↓	↓	↓	↓	↓
VO	AA72577, 705, 702, 704	3	9/30/98	1200				JC

*Aqueous volatile samples are not logged back into the refrigerator after test.

JC 10/8/98

A:\COCREC.DOC

INTERNAL CHAIN OF CUSTODY RECORD - REFRIGERATOR #12

eritech

Client ID: Eco Systems

Location: X

COMMENTS

TEST	SAMPLE No.	REMOVED: DATE	TIME	SIGNATURE	ALTERNATE	RETURNED: DATE	TIME	SIGNATURE	ALTERNATE
%o Sol	72482-85	10/5	1000	JL	Vol Frig	10/5	1100	JL	Vol. Frig.

FOR LOGIN BATCH

AA72482-85

500306

Laboratory Chronicle

veritech

Lab Number	Sample Description
AA72482	C1-E-8

% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				10/5/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
1,2-Dichloropropane				9/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/29/98	GVC	EPA 8260
Chlorobenzene				9/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/29/98	GVC	EPA 8260
Tetrachloroethene				9/29/98	GVC	EPA 8260
Bromoform				9/29/98	GVC	EPA 8260
2-Chloroethylvinylether				9/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/29/98	GVC	EPA 8260
Dibromochloromethane				9/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/29/98	GVC	EPA 8260
Bromodichloromethane				9/29/98	GVC	EPA 8260
Carbon Tetrachloride				9/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/29/98	GVC	EPA 8260
1,2-Dichloroethane				9/29/98	GVC	EPA 8260
Chloroform				9/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/29/98	GVC	EPA 8260
1,1-Dichloroethane				9/29/98	GVC	EPA 8260
1,1-Dichloroethene				9/29/98	GVC	EPA 8260
Trichlorofluoromethane				9/29/98	GVC	EPA 8260
Methylene Chloride				9/29/98	GVC	EPA 8260
Chloroethane				9/29/98	GVC	EPA 8260
Vinyl Chloride				9/29/98	GVC	EPA 8260
Bromomethane				9/29/98	GVC	EPA 8260
Chloromethane				9/29/98	GVC	EPA 8260
Trichloroethene				9/29/98	GVC	EPA 8260

Lab Number	Sample Description
AA72483	C1-N-8

% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				10/5/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
Bromodichloromethane				9/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/29/98	GVC	EPA 8260
Chlorobenzene				9/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/29/98	GVC	EPA 8260
Tetrachloroethene				9/29/98	GVC	EPA 8260
Bromoform				9/29/98	GVC	EPA 8260
2-Chloroethylvinylether				9/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/29/98	GVC	EPA 8260
Dibromochloromethane				9/29/98	GVC	EPA 8260
Trichloroethene				9/29/98	GVC	EPA 8260
Chloromethane				9/29/98	GVC	EPA 8260
1,2-Dichloropropane				9/29/98	GVC	EPA 8260
Carbon Tetrachloride				9/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/29/98	GVC	EPA 8260
1,2-Dichloroethane				9/29/98	GVC	EPA 8260

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Chloroform	9/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	9/29/98	GVC	EPA 8260
1,1-Dichloroethane	9/29/98	GVC	EPA 8260
1,1-Dichloroethene	9/29/98	GVC	EPA 8260
Trichlorofluoromethane	9/29/98	GVC	EPA 8260
Methylene Chloride	9/29/98	GVC	EPA 8260
Chloroethane	9/29/98	GVC	EPA 8260
Vinyl Chloride	9/29/98	GVC	EPA 8260
Bromomethane	9/29/98	GVC	EPA 8260
1,4-Dichlorobenzene	9/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene	9/29/98	GVC	EPA 8260
1,2-Dichlorobenzene	9/29/98	GVC	EPA 8260

Lab Number AA72484 **Sample Description** C1-B-8

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				10/5/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Bromoform				9/29/98	GVC	EPA 8260
Trichloroethene				9/29/98	GVC	EPA 8260
Dibromochloromethane				9/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/29/98	GVC	EPA 8260
1,2-Dichloropropane				9/29/98	GVC	EPA 8260
2-Chloroethylvinylether				9/29/98	GVC	EPA 8260
Bromodichloromethane				9/29/98	GVC	EPA 8260
Tetrachloroethene				9/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/29/98	GVC	EPA 8260
Chlorobenzene				9/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/29/98	GVC	EPA 8260
Carbon Tetrachloride				9/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/29/98	GVC	EPA 8260
1,2-Dichloroethane				9/29/98	GVC	EPA 8260
Chloroform				9/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/29/98	GVC	EPA 8260
1,1-Dichloroethane				9/29/98	GVC	EPA 8260
1,1-Dichloroethene				9/29/98	GVC	EPA 8260
Trichlorofluoromethane				9/29/98	GVC	EPA 8260
Methylene Chloride				9/29/98	GVC	EPA 8260
Chloroethane				9/29/98	GVC	EPA 8260
Vinyl Chloride				9/29/98	GVC	EPA 8260
Bromomethane				9/29/98	GVC	EPA 8260
Chloromethane				9/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/29/98	GVC	EPA 8260

Lab Number AA72485 **Sample Description** C1-S-8

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				10/5/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
1,2-Dichloropropane				9/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/29/98	GVC	EPA 8260
Chlorobenzene				9/29/98	GVC	EPA 8260

1,1,2,2-Tetrachloroethane	9/29/98	GVC	EPA 8260
Tetrachloroethene	9/29/98	GVC	EPA 8260
Bromoform	9/29/98	GVC	EPA 8260
2-Chloroethylvinylether	9/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene	9/29/98	GVC	EPA 8260
1,1,2-Trichloroethane	9/29/98	GVC	EPA 8260
Dibromochloromethane	9/29/98	GVC	EPA 8260
Chloromethane	9/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene	9/29/98	GVC	EPA 8260
Bromodichloromethane	9/29/98	GVC	EPA 8260
Carbon Tetrachloride	9/29/98	GVC	EPA 8260
1,1,1-Trichloroethane	9/29/98	GVC	EPA 8260
1,2-Dichloroethane	9/29/98	GVC	EPA 8260
Chloroform	9/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	9/29/98	GVC	EPA 8260
1,1-Dichloroethane	9/29/98	GVC	EPA 8260
1,1-Dichloroethene	9/29/98	GVC	EPA 8260
Trichlorofluoromethane	9/29/98	GVC	EPA 8260
Methylene Chloride	9/29/98	GVC	EPA 8260
Chloroethane	9/29/98	GVC	EPA 8260
Vinyl Chloride	9/29/98	GVC	EPA 8260
Bromomethane	9/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene	9/29/98	GVC	EPA 8260
Trichloroethene	9/29/98	GVC	EPA 8260

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

METHOD 8260

	NO	YES
1. GC/MS Tune Specifications a. BFB passed	___	_X_
2. GC/MS Tuning Frequency - performed every 12 hours	___	_X_
3. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hours before sample analysis.	___	_X_
4. GC/MS Calibration Requirements a. Calibration Check Compounds b. System Performance Check Compounds	___ ___	_X_ _X_
5. Blank Contamination - List compounds for each fraction a. VOA Fraction (see forml.)_____		
6. Surrogate Recoveries Meet Criteria (If not met; list those compounds and their recoveries which fall outside the acceptable range) a. VOA Fraction See note below (if applicable)._____	___	_X_
7. Extraction Holding Time Met	___	_X_
Comments:		
8. Analysis Holding Time Met	___	_X_
Comments:		

Additional Comments:

Organics Director _____ Date: 10/5/98

METHOD REFERENCES

Test Methods for Evaluating Solid Waste, SW-846, Third Edition
Chloride: Method 9253.
Cyanide: Method 9010B/9014.
Dioxins/Furans: Method 8290.
Flashpoint: Method 1010.
Fingerprint (GC): Methods (3510C or 3550B)/8015 modified.
Hexavalent Chromium: Second and Third Editions, Methods 3060 and 7196A.
Ignitability: Method 1030.
Metals: Methods (3005A or 3050B)/6010B, (7470A or 7471A) (Hg).
PCB's: Methods (3510C or 3550B)/8082.
PCB's (Oils): Methods 3580A/8082.
Pesticides: Methods (3510C or 3550B)/8081A.
pH (Soils): Method 9045C.
Phenolics (Soils): Method 9065.
Reactive Cyanide/Sulfide: Chapter Seven, Section 7.3, Reactivity.
Semivolatile Organics: Methods (3510C or 3550B)/8270C.
Sulfide: Method 9030B/9034.
TCLP: Extraction: Method 1311.
TCLP Volatile Organics: Method 8260B.
TCLP Semivolatile Organics: Methods 3510C/8270C.
TCLP Pesticides: Methods 3510C/8081A.
TCLP Herbicides: Method 8151A.
TCLP Metals: Methods 3005A/6010B and 7470A.
TPH: Method 9071A (extraction only)/418.1.
TPH Extractables: Methods (3510C or 3550B)/8015 modified.
Volatile Organics: Method 8260B.

Federal Register, 40 CFR Part 136
Volatile Organics: Method 624.
Semivolatile Organics: Method 625.
Pesticides/PCB's: Method 608.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039
Chlorinated Herbicides: Method 515.1/515.2.
Volatile Organics: Method 524.2, Revision 3, 1989.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
Cyanide (Free):, Method 4500-CN-I.
Hexavalent Chromium: Method 3500-Cr D.
Salinity: Method 2520-B.
Solids, Total, Fixed, & Volatile: Method 2540-G.

Methods for the Determination of Metals in Environmental Samples, EPA/600/4-91/010, June 1991
ICP Metals: Method 200.7, Revision 3.3.
GFAA Metals: Method 200.9.

Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983
Cyanide & Amenable Cyanide: Method 335.2/335.1.
Phenols: Method 420.1.
Mercury: Method 245.1.
pH Hydrogen Ion: Method 150.1/150.2.
Temperature, Deg. C: 170.1.
TPH (Soils & Waters): Method 418.1 (analysis 418.1 for Soils).
Specific Conductance: Method 120.1.
Residue, Filterable (TDS): Method 160.1.
Residue, Non-Filterable (TSS): Method 160.2.
Residue, Total: Method 160.3.
Residue, Volatile: Method 160.4.
Chloride: Method 325.3.
Sulfide (Waters): Method 376.1.
Oil & Grease (Total Recoverable): Method 413.1.
Oil & Grease: Method 1664.
Acidity (as $CaCO_3$): Method 305.1.
Alkalinity (as $CaCO_3$): Method 310.1.

American Society for Testing & Materials (ASTM), June 1991
TOX (Waters & Soils): Method D2361-91.

Hach Chemical Company Handbook
Chemical Oxygen Demand (Waters): Method 8000.

CT #: PH-0671
MA #: NJ386
NJ #: 14622
NY #: 11408
PA #: 68-463

Report Of Analysis
veritech laboratories

To: ECOSYSTEMS STRATEGIES

60 WORRALL AVE.

POUGHKEEPSIE NY 12603

Attention: Zywia Wojnar
Project: Middletown

Date Collected: 9/21/98
Date Submitted: 9/22/98
Date Reported: 10/15/98

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72482	C1-E-8					
		% Solids SM2540G				
			% Solids	Percent		89
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	28000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	28000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	28000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	28000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	28000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	28000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	28000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	28000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	28000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	28000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	28000	ND
			Bromodichloromethane	ug/Kg(PPB)	28000	ND
			Bromoform	ug/Kg(PPB)	28000	ND
			Bromomethane	ug/Kg(PPB)	28000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	28000	ND
			Chlorobenzene	ug/Kg(PPB)	28000	ND
			Chloroethane	ug/Kg(PPB)	28000	ND
			Chloroform	ug/Kg(PPB)	28000	ND
			Chloromethane	ug/Kg(PPB)	28000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	28000	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	28000	ND
			Dibromochloromethane	ug/Kg(PPB)	28000	ND
			Methylene Chloride	ug/Kg(PPB)	28000	ND
			Tetrachloroethene	ug/Kg(PPB)	28000	470000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	28000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	28000	ND
			Trichloroethene	ug/Kg(PPB)	28000	ND
			Trichlorofluoromethane	ug/Kg(PPB)	28000	ND
			Vinyl Chloride	ug/Kg(PPB)	28000	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72483	C1-N-8					
		% Solids SM2540G				
			% Solids	Percent		89
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	1400	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	1400	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	1400	ND
			1,1-Dichloroethane	ug/Kg(PPB)	1400	ND
			1,1-Dichloroethene	ug/Kg(PPB)	1400	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	1400	ND
			1,2-Dichloroethane	ug/Kg(PPB)	1400	ND
			1,2-Dichloropropane	ug/Kg(PPB)	1400	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	1400	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	1400	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	1400	ND
			Bromodichloromethane	ug/Kg(PPB)	1400	ND
			Bromoform	ug/Kg(PPB)	1400	ND
			Bromomethane	ug/Kg(PPB)	1400	ND
			Carbon Tetrachloride	ug/Kg(PPB)	1400	ND
			Chlorobenzene	ug/Kg(PPB)	1400	ND
			Chloroethane	ug/Kg(PPB)	1400	ND
			Chloroform	ug/Kg(PPB)	1400	ND
			Chloromethane	ug/Kg(PPB)	1400	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	1400	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	1400	ND
			Dibromochloromethane	ug/Kg(PPB)	1400	ND
			Methylene Chloride	ug/Kg(PPB)	1400	ND
			Tetrachloroethene	ug/Kg(PPB)	1400	7800
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	1400	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	1400	ND
			Trichloroethene	ug/Kg(PPB)	1400	350J
			Trichlorofluoromethane	ug/Kg(PPB)	1400	ND
			Vinyl Chloride	ug/Kg(PPB)	1400	ND
AA72484	C1-B-8					
		% Solids SM2540G				
			% Solids	Percent		89
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	14000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	14000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	14000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	14000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	14000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	14000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	14000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	14000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	14000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	14000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	14000	ND
			Bromodichloromethane	ug/Kg(PPB)	14000	ND
			Bromoform	ug/Kg(PPB)	14000	ND
			Bromomethane	ug/Kg(PPB)	14000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	14000	ND
			Chlorobenzene	ug/Kg(PPB)	14000	ND
			Chloroethane	ug/Kg(PPB)	14000	ND
			Chloroform	ug/Kg(PPB)	14000	ND
			Chloromethane	ug/Kg(PPB)	14000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	14000	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	14000	ND
			Dibromochloromethane	ug/Kg(PPB)	14000	ND
			Methylene Chloride	ug/Kg(PPB)	14000	ND
			Tetrachloroethene	ug/Kg(PPB)	14000	1100000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	14000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	14000	ND
			Trichloroethene	ug/Kg(PPB)	14000	25000
			Trichlorofluoromethane	ug/Kg(PPB)	14000	ND
			Vinyl Chloride	ug/Kg(PPB)	14000	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72485	C1-S-8					
		% Solids SM2540G				
			% Solids	Percent		84
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	150000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	150000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	150000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	150000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	150000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	150000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	150000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	150000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	150000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	150000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	150000	ND
			Bromodichloromethane	ug/Kg(PPB)	150000	ND
			Bromoform	ug/Kg(PPB)	150000	ND
			Bromomethane	ug/Kg(PPB)	150000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	150000	ND
			Chlorobenzene	ug/Kg(PPB)	150000	ND
			Chloroethane	ug/Kg(PPB)	150000	ND
			Chloroform	ug/Kg(PPB)	150000	ND
			Chloromethane	ug/Kg(PPB)	150000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	150000	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	150000	ND
			Dibromochloromethane	ug/Kg(PPB)	150000	ND
			Methylene Chloride	ug/Kg(PPB)	150000	ND
			Tetrachloroethene	ug/Kg(PPB)	150000	11000000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	150000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	150000	ND
			Trichloroethene	ug/Kg(PPB)	150000	79000J
			Trichlorofluoromethane	ug/Kg(PPB)	150000	ND
			Vinyl Chloride	ug/Kg(PPB)	150000	ND

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Jetter - Quality Assurance Director

Or

Stanley Gilewicz - Laboratory Director

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Form1

ORGANICS VOLATILE REPORT

Sample Number: BLANK(MEOH) *Matrix:* Soil

Client Id: *Initial Volume:* 5ml

Data File: fh9966 *Final Volume:* NA

Date Analyzed: 29 Sep 1998 3:21 *Dilution Factor:* 125

Date Received/Extracted: *Percent Solids:* 100

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	630	U
79345	1,1,2,2-Tetrachloroethane	630	U
79005	1,1,2-Trichloroethane	630	U
75343	1,1-Dichloroethane	630	U
75354	1,1-Dichloroethene	630	U
95501	1,2-Dichlorobenzene	630	U
107062	1,2-Dichloroethane	630	U
78875	1,2-Dichloropropane	630	U
541731	1,3-Dichlorobenzene	630	U
106467	1,4-Dichlorobenzene	630	U
110758	2-Chloroethylvinylether	630	U
75274	Bromodichloromethane	630	U
75252	Bromoform	630	U
74839	Bromomethane	630	U
56235	Carbon Tetrachloride	630	U
108907	Chlorobenzene	630	U
75003	Chloroethane	630	U
67663	Chloroform	630	U
74873	Chloromethane	630	U
156592	Cis-1,2-Dichloroethene	630	U
10061015	Cis-1,3-Dichloropropene	630	U
124481	Dibromochloromethane	630	U
75092	Methylene Chloride	630	U
127184	Tetrachloroethene	630	U
156605	Trans-1,2-Dichloroethene	630	U
10061026	Trans-1,3-Dichloropropene	630	U
79016	Trichloroethene	630	U
75694	Trichlorofluoromethane	630	U
75014	Vinyl Chloride	630	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\110021.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9966.D Vial: 29
Acq On : 29 Sep 1998 3:21 Operator: GVC
Sample : BLANK(MEOH) Inst : GCMS_1
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 9:54 1998 Quant Results File: MH0923.RES

Quant Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Wed Sep 23 19:00:03 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.36	128	210887	30.00	ug/l	0.02
24) 1,4-Difluorobenzene	9.51	114	1007639	30.00	ug/l	0.02
42) Chlorobenzene-d5	12.99	117	907157	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.06	102	90777	31.16	ug/l	0.02
Spiked Amount 30.000			Recovery =	103.87%		
47) Toluene-d8	11.36	100	241536	31.00	ug/l	0.02
Spiked Amount 30.000			Recovery =	103.33%		
52) Bromofluorobenzene	14.17	174	450798	30.00	ug/l	0.02
Spiked Amount 30.000			Recovery =	100.00%		

Target Compounds Qvalue

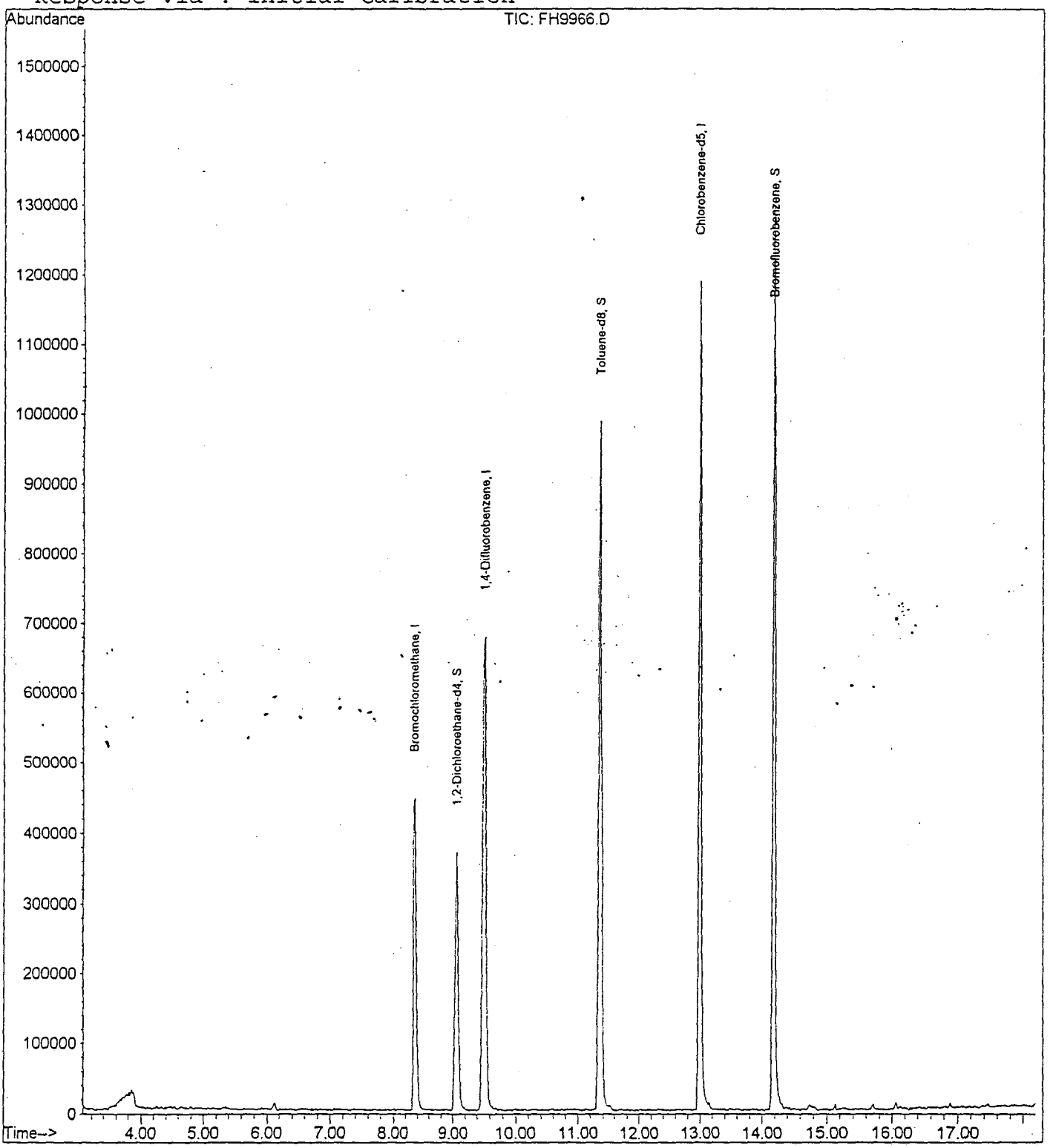
10-5-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9966.D Vial: 29
Acq On : 29 Sep 1998 3:21 Operator: GVC
Sample : BLANK(MEOH) Inst : GCMS_1
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 9:54 1998 Quant Results File: MH0923.RES

Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Wed Sep 23 19:00:03 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72482(1/40) *Matrix:* Soil

Client Id: C1-E-8 *Initial Volume:* 5ml

Data File: fh9981 *Final Volume:* NA

Date Analyzed: 29 Sep 1998 9:36 *Dilution Factor:* 5000

Date Received/Extracted: 9/21/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	28000	U
79345	1,1,2,2-Tetrachloroethane	28000	U
79005	1,1,2-Trichloroethane	28000	U
75343	1,1-Dichloroethane	28000	U
75354	1,1-Dichloroethene	28000	U
95501	1,2-Dichlorobenzene	28000	U
107062	1,2-Dichloroethane	28000	U
78875	1,2-Dichloropropane	28000	U
541731	1,3-Dichlorobenzene	28000	U
106467	1,4-Dichlorobenzene	28000	U
110758	2-Chloroethylvinylether	28000	U
75274	Bromodichloromethane	28000	U
75252	Bromoform	28000	U
74839	Bromomethane	28000	U
56235	Carbon Tetrachloride	28000	U
108907	Chlorobenzene	28000	U
75003	Chloroethane	28000	U
67663	Chloroform	28000	U
74873	Chloromethane	28000	U
156592	Cis-1,2-Dichloroethene	28000	U
10061015	Cis-1,3-Dichloropropene	28000	U
124481	Dibromochloromethane	28000	U
75092	Methylene Chloride	28000	U
127184	Tetrachloroethene	28000	470000
156605	Trans-1,2-Dichloroethene	28000	U
10061026	Trans-1,3-Dichloropropene	28000	U
79016	Trichloroethene	28000	U
75694	Trichlorofluoromethane	28000	U
75014	Vinyl Chloride	28000	U

Total Target Concentration 470000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\110021.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9981.D Vial: 44
Acq On : 29 Sep 1998 9:36 Operator: GVC
Sample : AA72482(1/40) Inst : GCMS_1
Misc : M,4g/10mL--20uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 8:28 1998 Quant Results File: MH0923.RES

Quant Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Sep 28 18:35:33 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.37	128	227495	30.00	ug/l	0.02
24) 1,4-Difluorobenzene	9.51	114	1029222	30.00	ug/l	0.02
42) Chlorobenzene-d5	12.99	117	957641	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.06	102	94609	30.11	ug/l	0.02
Spiked Amount 30.000			Recovery = 100.37%			
47) Toluene-d8	11.36	100	239296	29.09	ug/l	0.02
Spiked Amount 30.000			Recovery = 96.97%			
52) Bromofluorobenzene	14.17	174	476865	30.06	ug/l	0.02
Spiked Amount 30.000			Recovery = 100.20%			
Target Compounds						Qvalue
45) Tetrachloroethene	12.14	164	671463	82.83	ug/l	99
51) Ethylbenzene	13.13	106	3938	1.03	ug/l	40

10-5-98

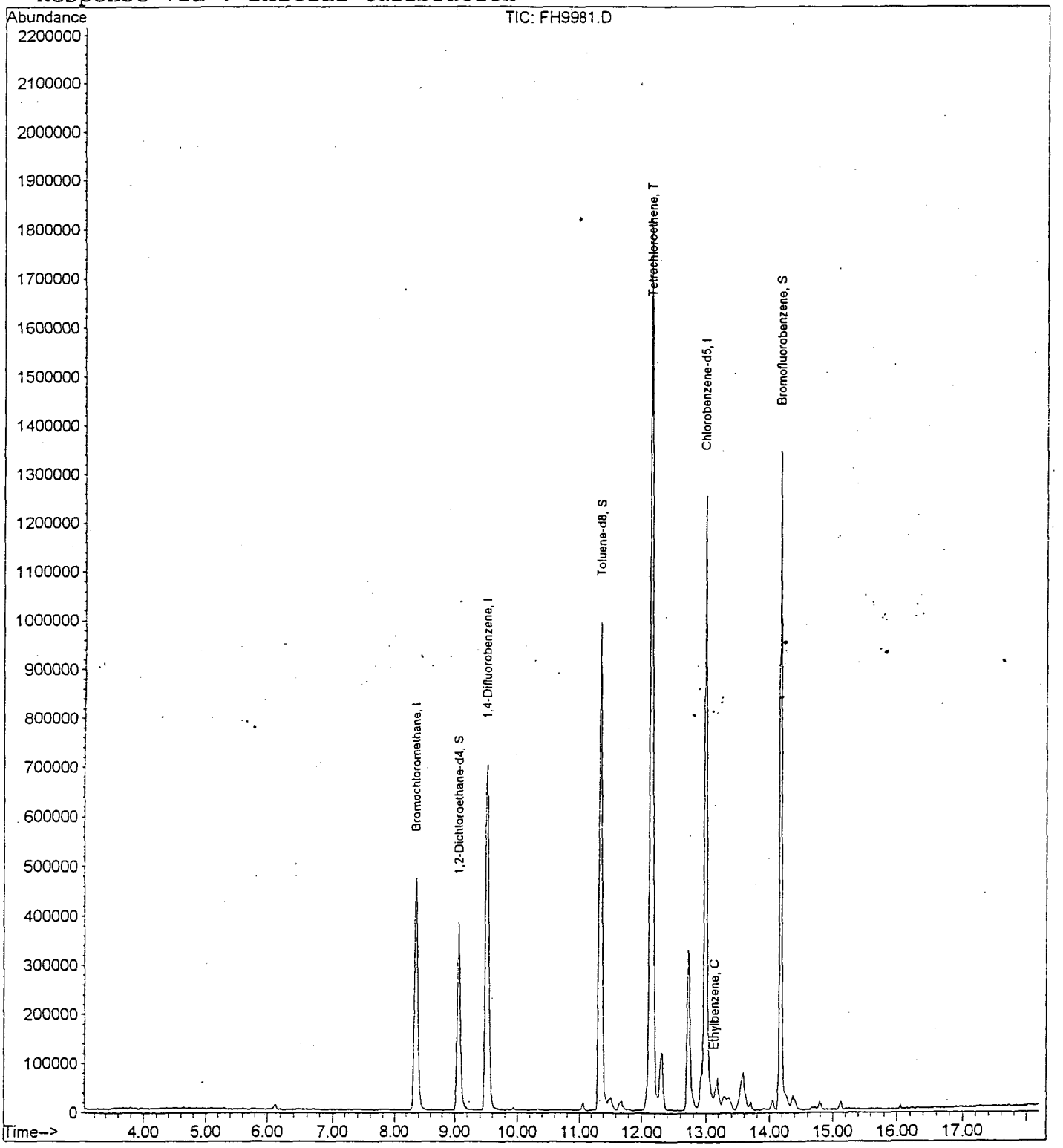
(#) = qualifier out of range (m) = manual integration

000010

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9981.D Vial: 44
Acq On : 29 Sep 1998 9:36 Operator: GVC
Sample : AA72482(1/40) Inst : GCMS_1
Misc : M,4g/10mL--20uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 8:28 1998 Quant Results File: MH0923.RES

Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Wed Sep 23 19:00:03 1998
Response via : Initial Calibration



000019

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72483(1/2) | *Matrix:* Soil

Client Id: C1-N-8 | *Initial Volume:* 5ml

Data File: fh9989 | *Final Volume:* NA

Date Analyzed: 29 Sep 1998 12:58 | *Dilution Factor:* 250

Date Received/Extracted: 9/21/98-NA | *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	1400	U
79345	1,1,2,2-Tetrachloroethane	1400	U
79005	1,1,2-Trichloroethane	1400	U
75343	1,1-Dichloroethane	1400	U
75354	1,1-Dichloroethene	1400	U
95501	1,2-Dichlorobenzene	1400	U
107062	1,2-Dichloroethane	1400	U
78875	1,2-Dichloropropane	1400	U
541731	1,3-Dichlorobenzene	1400	U
106467	1,4-Dichlorobenzene	1400	U
110758	2-Chloroethylvinylether	1400	U
75274	Bromodichloromethane	1400	U
75252	Bromoform	1400	U
74839	Bromomethane	1400	U
56235	Carbon Tetrachloride	1400	U
108907	Chlorobenzene	1400	U
75003	Chloroethane	1400	U
67663	Chloroform	1400	U
74873	Chloromethane	1400	U
156592	Cis-1,2-Dichloroethene	1400	U
10061015	Cis-1,3-Dichloropropene	1400	U
124481	Dibromochloromethane	1400	U
75092	Methylene Chloride	1400	U
127184	Tetrachloroethene	1400	7800
156605	Trans-1,2-Dichloroethene	1400	U
10061026	Trans-1,3-Dichloropropene	1400	U
79016	Trichloroethene	1400	350 J
75694	Trichlorofluoromethane	1400	U
75014	Vinyl Chloride	1400	U

Total Target Concentration 8200

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\110021.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9989.D Vial: 52
Acq On : 29 Sep 1998 12:58 Operator: GVC
Sample : AA72483(1/2) Inst : GCMS_1
Misc : M,4g/10mL--400uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 8:29 1998 Quant Results File: MH0923.RES

Quant Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Sep 28 18:35:33 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.35	128	227362	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.50	114	1075557	30.00	ug/l	0.00
42) Chlorobenzene-d5	12.98	117	969559	30.00	ug/l	0.00
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.06	102	92851	29.57	ug/l	0.02
Spiked Amount 30.000			Recovery = 98.57%			
47) Toluene-d8	11.34	100	253056	30.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.27%			
52) Bromofluorobenzene	14.16	174	434189	27.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.10%			
Target Compounds						Qvalue
34) Trichloroethene	9.93	130	13241	1.26	ug/l	93
45) Tetrachloroethene	12.14	164	227910	27.77	ug/l	98

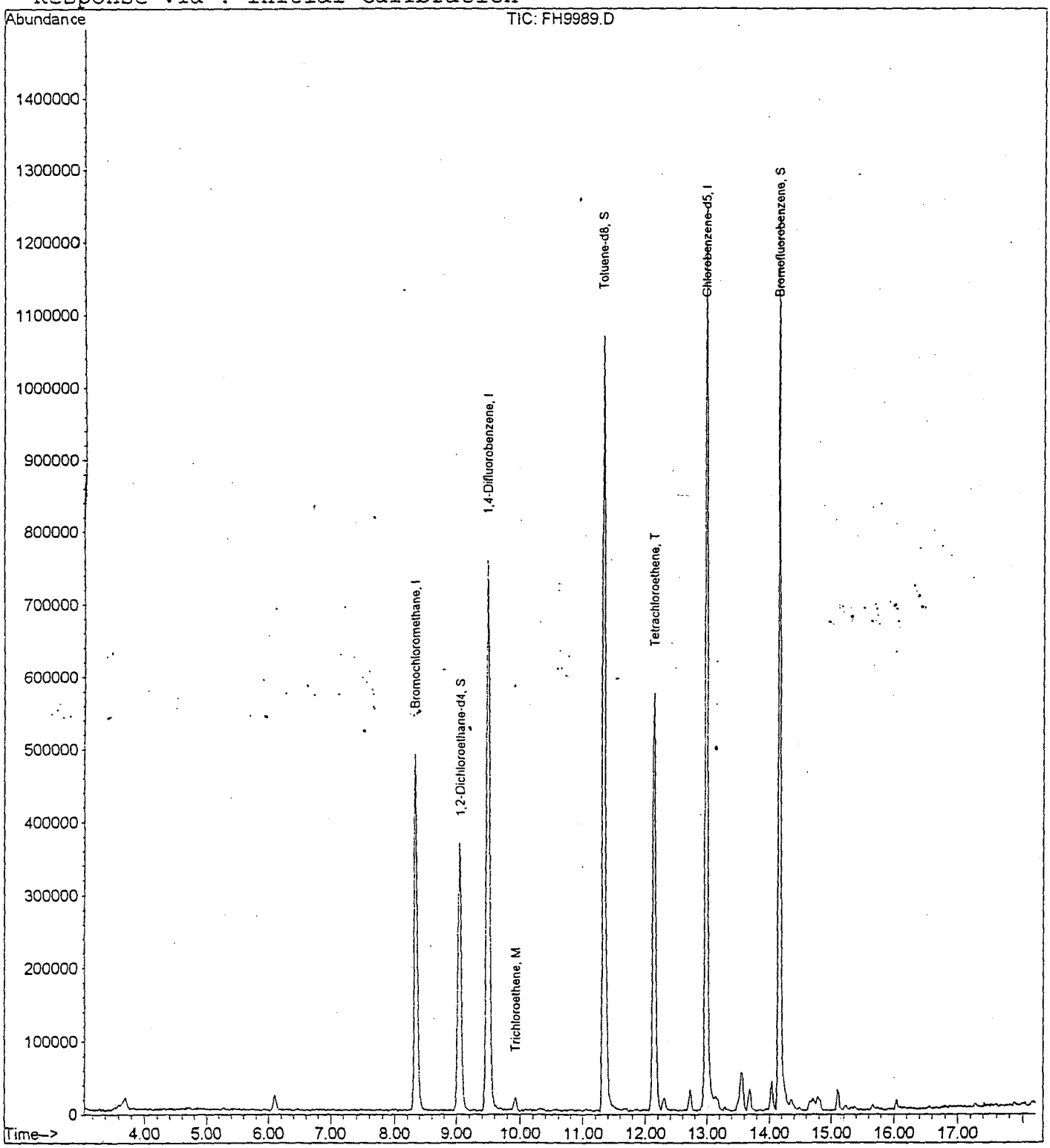
10-2-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9989.D Vial: 52
Acq On : 29 Sep 1998 12:58 Operator: GVC
Sample : AA72483(1/2) Inst : GCMS_1
Misc : M,4g/10mL--400uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 8:29 1998 Quant Results File: MH0923.RES

Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Wed Sep 23 19:00:03 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72484 — *Matrix:* Soil

Client Id: C1-B-8 — *Initial Volume:* 5ml

Data File: fh9990 — *Final Volume:* NA

Date Analyzed: 29 Sep 1998 13:23 — *Dilution Factor:* 2500

Date Received/Extracted: 9/21/98-NA — *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	14000	U
79345	1,1,2,2-Tetrachloroethane	14000	U
79005	1,1,2-Trichloroethane	14000	U
75343	1,1-Dichloroethane	14000	U
75354	1,1-Dichloroethene	14000	U
95501	1,2-Dichlorobenzene	14000	U
107062	1,2-Dichloroethane	14000	U
78875	1,2-Dichloropropane	14000	U
541731	1,3-Dichlorobenzene	14000	U
106467	1,4-Dichlorobenzene	14000	U
110758	2-Chloroethylvinylether	14000	U
75274	Bromodichloromethane	14000	U
75252	Bromoform	14000	U
74839	Bromomethane	14000	U
56235	Carbon Tetrachloride	14000	U
108907	Chlorobenzene	14000	U
75003	Chloroethane	14000	U
67663	Chloroform	14000	U
74873	Chloromethane	14000	U
156592	Cis-1,2-Dichloroethene	14000	U
10061015	Cis-1,3-Dichloropropene	14000	U
124481	Dibromochloromethane	14000	U
75092	Methylene Chloride	14000	U
127184	Tetrachloroethene	14000	1100000
156605	Trans-1,2-Dichloroethene	14000	U
10061026	Trans-1,3-Dichloropropene	14000	U
79016	Trichloroethene	14000	25000
75694	Trichlorofluoromethane	14000	U
75014	Vinyl Chloride	14000	U

Total Target Concentration 1100000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\110021.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9990.D Vial: 53
Acq On : 29 Sep 1998 13:23 Operator: GVC
Sample : AA72484 Inst : GCMS_1
Misc : M,4g/10mL--40uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 8:30 1998 Quant Results File: MH0923.RES

Quant Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Sep 28 18:35:33 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.35	128	220538	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.49	114	1047026	30.00	ug/l	0.00
42) Chlorobenzene-d5	12.97	117	881262	30.00	ug/l	0.00
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.04	102	96080	31.54	ug/l	0.00
Spiked Amount 30.000			Recovery =	105.13%		
47) Toluene-d8	11.34	100	250240	33.06	ug/l	0.00
Spiked Amount 30.000			Recovery =	110.20%		
52) Bromofluorobenzene	14.16	174	450236	30.84	ug/l	0.00
Spiked Amount 30.000			Recovery =	102.80%		
Target Compounds						Qvalue
34) Trichloroethene	9.91	130	91925	8.95	ug/l	97
45) Tetrachloroethene	12.12	164	3033918	406.69	ug/l	99
54) m&p-Xylenes	13.11	106	72534	5.95	ug/l	86
55) o-Xylene	13.55	106	32078	2.51	ug/l	96

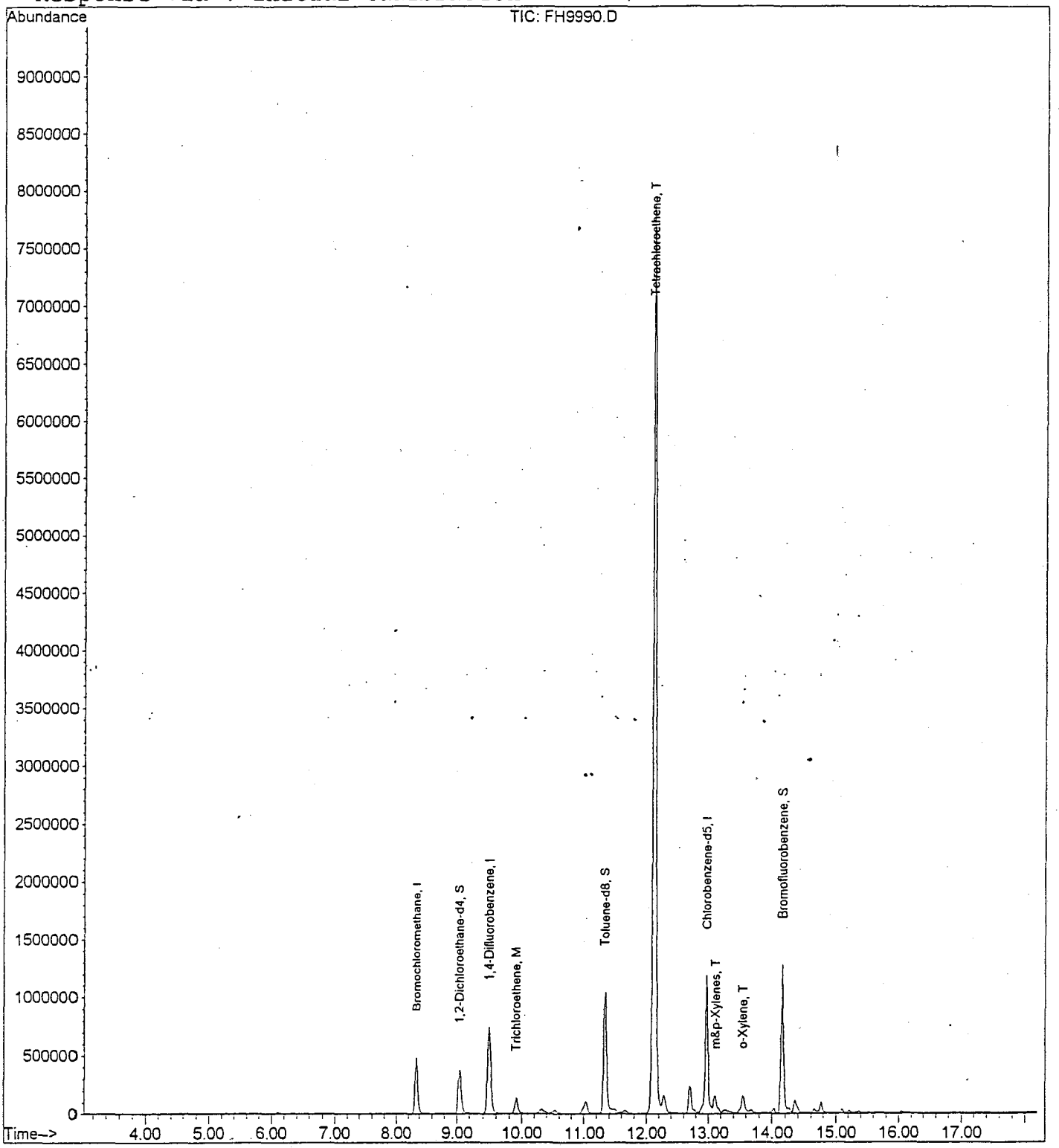
10-5-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9990.D Vial: 53
Acq On : 29 Sep 1998 13:23 Operator: GVC
Sample : AA72484 Inst : GCMS_1
Misc : M,4g/10mL--40uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 5 8:30 1998 Quant Results File: MH0923.RES

Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Wed Sep 23 19:00:03 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72485(1/200) *Matrix:* Soil

Client Id: C1-S-8 *Initial Volume:* 5ml

Data File: fh9982 *Final Volume:* NA

Date Analyzed: 29 Sep 1998 10:02 *Dilution Factor:* 25000

Date Received/Extracted: 9/21/98-NA *Percent Solids:* 84

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	150000	U
79345	1,1,2,2-Tetrachloroethane	150000	U
79005	1,1,2-Trichloroethane	150000	U
75343	1,1-Dichloroethane	150000	U
75354	1,1-Dichloroethene	150000	U
95501	1,2-Dichlorobenzene	150000	U
107062	1,2-Dichloroethane	150000	U
78875	1,2-Dichloropropane	150000	U
541731	1,3-Dichlorobenzene	150000	U
106467	1,4-Dichlorobenzene	150000	U
110758	2-Chloroethylvinylether	150000	U
75274	Bromodichloromethane	150000	U
75252	Bromoform	150000	U
74839	Bromomethane	150000	U
56235	Carbon Tetrachloride	150000	U
108907	Chlorobenzene	150000	U
75003	Chloroethane	150000	U
67663	Chloroform	150000	U
74873	Chloromethane	150000	U
156592	Cis-1,2-Dichloroethene	150000	U
10061015	Cis-1,3-Dichloropropene	150000	U
124481	Dibromochloromethane	150000	U
75092	Methylene Chloride	150000	U
127184	Tetrachloroethene	150000	11000000
156605	Trans-1,2-Dichloroethene	150000	U
10061026	Trans-1,3-Dichloropropene	150000	U
79016	Trichloroethene	150000	79000 J
75694	Trichlorofluoromethane	150000	U
75014	Vinyl Chloride	150000	U

Total Target Concentration 11000000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\110021.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9982.D Vial: 45
Acq On : 29 Sep 1998 10:02 Operator: GVC
Sample : AA72485(1/200) Inst : GCMS_1
Misc : M,4g/10mL--4uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 13:21 1998 Quant Results File: MH0923.RES

Quant Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Sep 28 18:35:33 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.36	128	217035	30.00	ug/l	0.02
24) 1,4-Difluorobenzene	9.51	114	1031492	30.00	ug/l	0.02
42) Chlorobenzene-d5	12.99	117	966051	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.06	102	89921	30.00	ug/l	0.02
Spiked Amount 30.000			Recovery = 100.00%			
47) Toluene-d8	11.36	100	247360	29.81	ug/l	0.02
Spiked Amount 30.000			Recovery = 99.37%			
52) Bromofluorobenzene	14.19	174	488635	30.53	ug/l	0.03
Spiked Amount 30.000			Recovery = 101.77%			
Target Compounds						Qvalue
34) Trichloroethene	9.93	130	26690	2.64	ug/l	89
45) Tetrachloroethene	12.16	164	3141163	384.11	ug/l	99

10-5-98

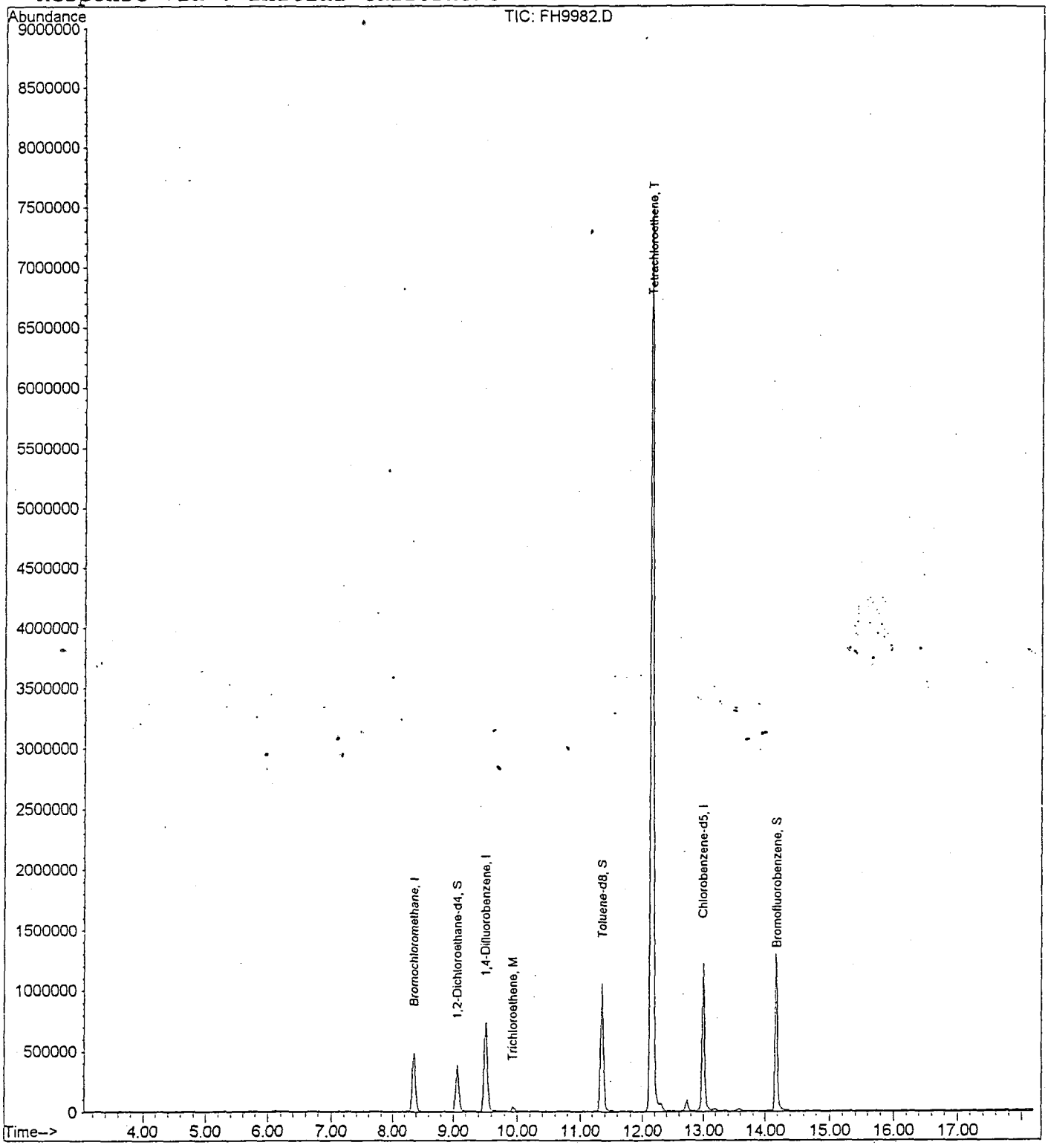
(#) = qualifier out of range (m) = manual integration

000027

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9982.D Vial: 45
Acq On : 29 Sep 1998 10:02 Operator: GVC
Sample : AA72485(1/200) Inst : GCMS_1
Misc : M,4g/10mL--4uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 13:21 1998 Quant Results File: MH0923.RES

Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1
Last Update : Wed Sep 23 19:00:03 1998
Response via : Initial Calibration



000028

Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
fh9965.d	BLANK(A)	Aqueous	102	93	99
fh9966.d	BLANK(MEOH)	Methanol/Soil	104	103	100
fh9967.d	AA72753	Aqueous	106	93	100
fh9968.d	AA72759	Aqueous	100	94	101
fh9969.d	AA72760	Aqueous	103	97	104
fh9970.d	AA72761	Aqueous	101	100	104
fh9979.d	AA72484	Methanol/Soil	100	95	100
fh9980.d	AA72483(1/20)	Methanol/Soil	101	92	100
fh9981.d	AA72482(1/40)	Methanol/Soil	100	97	100
fh9982.d	AA72485(1/200)	Methanol/Soil	100	99	102
fh9983.d	AA71776(1/10)	Methanol/Soil	108	102	101
fh9987.d	AA72248(1/80)	Methanol/Soil	111	98	99
fh9988.d	AA72246(1/80)	Methanol/Soil	99	101	101
fh9989.d	AA72483(1/2)	Methanol/Soil	99	101	90
fh9990.d	AA72484	Methanol/Soil	105	110	103

Quality Control Limits

	Aqueous Limits 8260			*Soil Limits 8260*		
Compound	*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 = 1,2-Dichloroethane-d4	30	80	120	30	80	120
S2 = Toluene-d8	30	88	110	30	81	117
S3 = Bromofluorobenzene	30	86	115	30	74	121

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
fh9994.d	AA72506	Methanol/Soil	85	72	68
fh9995.d	AA72082(1/200)	Methanol/Soil	0 *	0 *	0 *
fh9996.d	AA72090(1/200)	Methanol/Soil	0 *	0 *	0 *
fh9999b.d	AA72248	Methanol/Soil	110 *	103 *	101 *
fm0000.d	AA72461(1/20)	Methanol/Soil	0 *	72	89
fm0001.d	AA72507(1/10)	Methanol/Soil	49 *	81	83
fm0003.d	AA72613	Methanol/Soil	84	73	78
fm0004.d	AA72607	Methanol/Soil	79	71	78
fm0005.d	AA72608	Methanol/Soil	87	77	79
fm0006.d	AA72609	Methanol/Soil	76	79	77
fm0007.d	AA72610	Methanol/Soil	80	74	77
fm0008.d	AA72611	Methanol/Soil	79	80	76
fm0009.d	AA72612	Methanol/Soil	80	74	78
fm0011.d	AA72506(MS)	Methanol/Soil	78	71	76
fm0012.d	AA72506(MSD)	Methanol/Soil	78	70	75
fm0013.d	AA72707	Methanol/Soil	86	83	78
fm0014.d	AA72708	Methanol/Soil	85	83	79

Quality Control Limits

	Aqueous Limits 8260			*Soil Limits 8260*		
Compound	*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 = 1,2-Dichloroethane-d4	30	80	120	30	54	92
S2 = Toluene-d8	30	88	110	30	47	96
S3 = Bromofluorobenzene	30	86	115	30	54	91

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
fh9993.d	DAILY BLANK(MEO	Methanol/Soil	112	112	103
fh9997.d	AA72247(1/10)	Methanol/Soil	98	101	101
fh9998.d	AA72246(1/10)	Methanol/Soil	98	103	104
fh9999.d	AA72248(1/20)	Methanol/Soil	104	96	100
fh9999b.d	AA72248	Methanol/Soil	110	103	101
fm0002.d	AA72631(1/10)	Methanol/Soil	104	89	103
fm0010.d	MBS(MEOH)	Methanol/Soil	101	103	102

Quality Control Limits

	Aqueous Limits 8260			*Soil Limits 8260*		
Compound	*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 = 1,2-Dichloroethane-d4	30	80	120	30	80	120
S2 = Toluene-d8	30	88	110	30	81	117
S3 = Bromofluorobenzene	30	86	115	30	74	121

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form3
VOLATILE SPIKE RECOVERY FORM METHANOL

Data File	*Sample Number*	*Date Analyzed*	*Dilution*
fm0010.d	MBS(MEOH)	29 Sep 1998 23:13	1
fh9994.d	AA72506	29 Sep 1998 15:41	1
fm0011.d	AA72506(MS)	29 Sep 1998 23:38	1
fm0012.d	AA72506(MSD)	30 Sep 1998 00:03	1

Compound	*Amt Spk'd*	*Quality Control Limits* *Recovery* *Low*	*Hi*	*RPD*	*Concentration* *MBS*	*Sample*	*MS*	*MSD*	*Percent Recovery* *MBS*	*MS*	*MSD*	*RPD*
1,1-Dichloroethene	20	59	172	22	23.72	0.00	18.11	15.65	119	91	78	15
Benzene	20	66	142	21	22.43	0.00	22.23	21.69	112	111	108	2.5
Chlorobenzene	20	60	133	21	24.87	0.00	26.50	26.39	124	133	132	0.42
Toluene	20	59	139	21	23.65	2.00	26.18	26.31	118	121	122	0.54
Trichloroethene	20	62	137	24	23.31	0.00	23.47	23.35	117	117	117	0.51

** - Values outside of Recovery limits*

 # - Values outside of RPD limits

^ - Both Spike And Duplicate Recoveries = 0 (no meaningful result available)

NA - Not applicable

Form 4

Method Blank Name: BLANK(M *Date Analyzed:* 29 Sep 1998 3:21

Method Blank File: fh9966.d *Date Extracted:* na

Matrix: Water

Sample File	*Sample Name*	*Date Analyzed*
fh9971.d	AA72374	29 Sep 1998 5:26
fh9972.d	AA72376	29 Sep 1998 5:51
fh9973.d	AA72502	29 Sep 1998 6:16
fh9980.d	AA72483(1/20)	29 Sep 1998 9:11
fh9981.d	AA72482(1/40)	29 Sep 1998 9:36
fh9982.d	AA72485(1/200	29 Sep 1998 10:02
fh9983.d	AA71776(1/10)	29 Sep 1998 10:27
fh9984.d	AA72461(1/20)	29 Sep 1998 10:54
fh9985.d	AA72082(1/20)	29 Sep 1998 11:18
fh9986.d	AA72090(1/20)	29 Sep 1998 11:43
fh9987.d	AA72248(1/80)	29 Sep 1998 12:08
fh9988.d	AA72246(1/80)	29 Sep 1998 12:33
fh9989.d	AA72483(1/2)	29 Sep 1998 12:58
fh9990.d	AA72484	29 Sep 1998 13:23

Form 4

Method Blank Name: DAILY BL *Date Analyzed:* 29 Sep 1998 14:58

Method Blank File: fh9993.d *Date Extracted:* NA

Matrix: Water

Sample File	*Sample Name*	*Date Analyzed*
fh9994.d	AA72506	29 Sep 1998 15:41
fh9995.d	AA72082(1/200	29 Sep 1998 16:05
fh9996.d	AA72090(1/200	29 Sep 1998 16:30
fh9997.d	AA72247(1/10)	29 Sep 1998 16:55
fh9998.d	AA72246(1/10)	29 Sep 1998 17:21
fh9999.d	AA72248(1/20)	29 Sep 1998 17:46
fh9999a.d	CAL @ 50ppb	29 Sep 1998 18:12
fh9999b.d	AA72248	29 Sep 1998 18:37
fm0000.d	AA72461(1/20)	29 Sep 1998 19:03
fm0001.d	AA72507(1/10)	29 Sep 1998 19:29
fm0002.d	AA72631(1/10)	29 Sep 1998 19:53
fm0003.d	AA72613	29 Sep 1998 20:19
fm0004.d	AA72607	29 Sep 1998 20:43
fm0005.d	AA72608	29 Sep 1998 21:08
fm0006.d	AA72609	29 Sep 1998 21:34
fm0007.d	AA72610	29 Sep 1998 21:58
fm0008.d	AA72611	29 Sep 1998 22:23
fm0009.d	AA72612	29 Sep 1998 22:49
fm0010.d	MBS(MEOH)	29 Sep 1998 23:13
fm0011.d	AA72506(MS)	29 Sep 1998 23:38
fm0012.d	AA72506(MSD)	30 Sep 1998 00:03
fm0013.d	AA72707	30 Sep 1998 00:28
fm0014.d	AA72708	30 Sep 1998 00:53
fm0015.d	AA72709	30 Sep 1998 1:20
fm0019.d	AA72238	30 Sep 1998 10:47

Form5

CAL BFB TUNE

Tune File: fh9838.d

Date/Time Analyzed: 23 Sep 1998 15:44

Instrument: gcms_1

Tune Scan/Time Range: Average of 6.683 to 6.752 min.

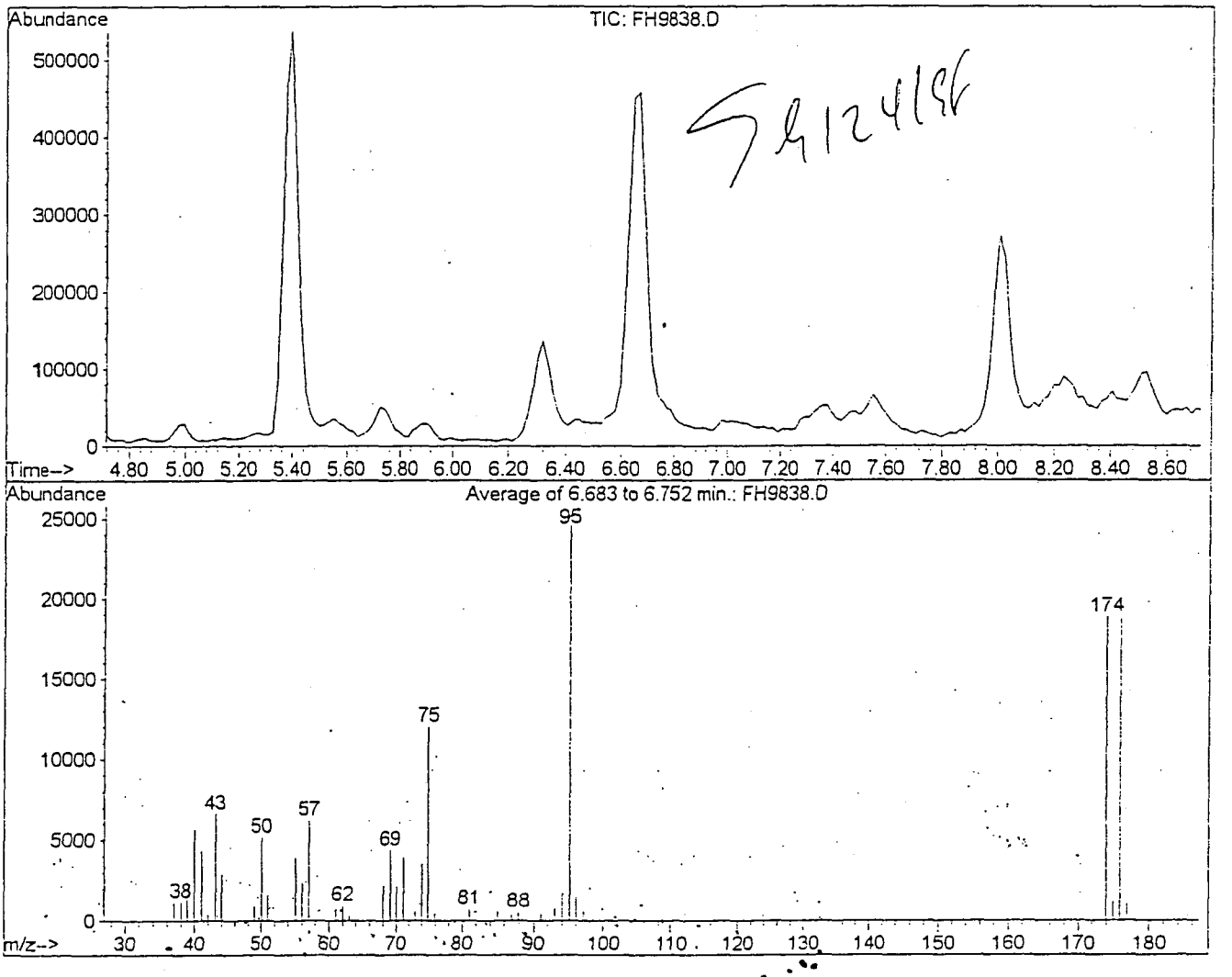
Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	20.8	5131	PASS
75	95	30	60	48.8	12020	PASS
95	95	100	100	100.0	24612	PASS
96	95	5	9	6.0	1485	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.6	18856	PASS
175	174	5	9	6.1	1155	PASS
176	174	95	101	99.3	18726	PASS
177	176	5	9	5.7	1070	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fh9839.d	CAL @ 500 PPB	23 Sep 1998 16:11
fh9840.d	CAL @ 100 PPB	23 Sep 1998 16:36
fh9841.d	CAL @ 50 PPB	23 Sep 1998 17:01
fh9842.d	CAL @ 20 PPB	23 Sep 1998 17:26
fh9843.d	CAL @ 10 PPB	23 Sep 1998 17:50
fh9844.d	CAL @ 5 PPB	23 Sep 1998 18:15
fh9845.d	DAILY BLANK(A)	23 Sep 1998 18:40
fh9846.d	DAILY BLANK(A)	23 Sep 1998 19:11
fh9847.d	DAILY BLANK(MEO	23 Sep 1998 19:37
fh9848.d	AA72301	23 Sep 1998 20:02
fh9849.d	AA72302	23 Sep 1998 20:27
fh9850.d	AA72307	23 Sep 1998 20:55
fh9851.d	AA72171	23 Sep 1998 21:20
fh9852.d	AA72177	23 Sep 1998 21:45
fh9853.d	AA72179	23 Sep 1998 22:10
fh9854.d	AA72168	23 Sep 1998 22:35
fh9855.d	AA72170	23 Sep 1998 23:00
fh9856.d	AA71588	23 Sep 1998 23:25
fh9857.d	AA72084	23 Sep 1998 23:50
fh9858.d	AA72085	24 Sep 1998 00:15
fh9859.d	AA72086	24 Sep 1998 00:40
fh9860.d	AA72087	24 Sep 1998 1:05
fh9861.d	AA72088	24 Sep 1998 1:30
fh9862.d	AA72083	24 Sep 1998 1:55
fh9863.d	AA72091	24 Sep 1998 2:20
fh9864.d	MBS(MEOH)	24 Sep 1998 2:45
fh9865.d	AA72085(MS)	24 Sep 1998 3:10
fh9866.d	AA72085(MSD)	24 Sep 1998 3:35
fh9867.d	BLANK	24 Sep 1998 4:00
fh9868.d	BLANK	24 Sep 1998 4:25
fh9869.d	BLANK	24 Sep 1998 4:50
fh9870.d	AA72078	24 Sep 1998 5:15
fh9871.d	AA72079	24 Sep 1998 5:40
fh9872.d	AA72076	24 Sep 1998 6:05
fh9873.d	AA72077	24 Sep 1998 6:30
fh9874.d	AA72075	24 Sep 1998 6:55

CLPBFB

Data File : G:\GCMSDATA\GCMS_1\09-23-98\FH9838.D
Acq On : 23 Sep 1998 15:44
Sample : CAL BFB TUNE
Misc : A,5mL
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1

Vial: 1
Operator: GVC
Inst : GCMS_1
Multiplr: 1.00



Spectrum Information: Average of 6.683 to 6.752 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	5131	PASS
75	95	30	60	48.8	12020	PASS
95	95	100	100	100.0	24612	PASS
96	95	5	9	6.0	1485	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.6	18856	PASS
175	174	5	9	6.1	1155	PASS
176	174	95	101	99.3	18726	PASS
177	176	5	9	5.7	1070	PASS

FH9838.D MH0923.M Thu Sep 24 14:38:34 1998 SYSTEM1

Form5
CAL BFB TUNE

Tune File: fh9962.d

Date/Time Analyzed: 29 Sep 1998 1:42

Instrument: gcms_1

Tune Scan/Time Range: Scan 119

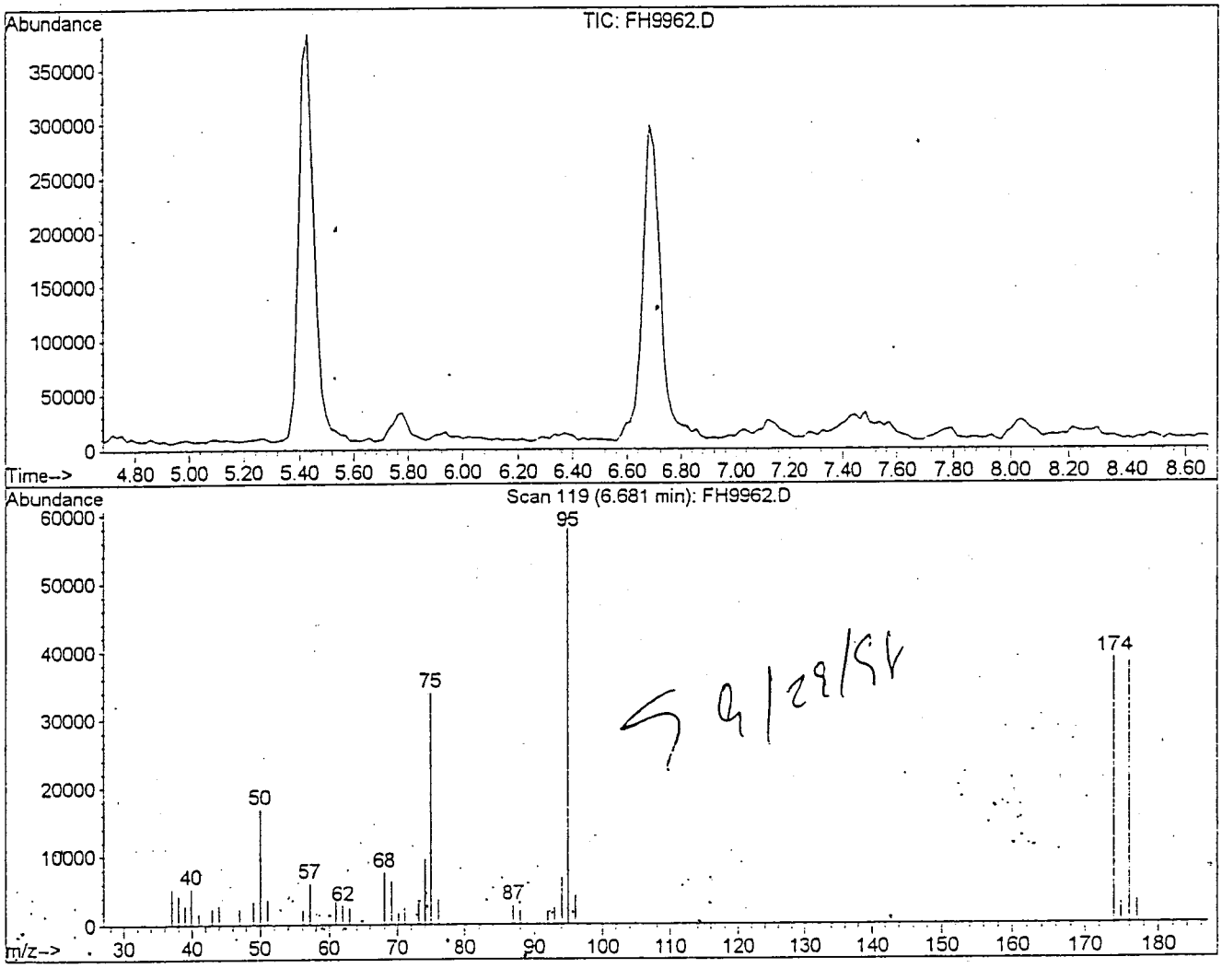
Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	29.1	16872	PASS
75	95	30	60	58.5	33912	PASS
95	95	100	100	100.0	57960	PASS
96	95	5	9	7.4	4274	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.9	38776	PASS
175	174	5	9	7.7	2972	PASS
176	174	95	101	98.7	38280	PASS
177	176	5	9	8.6	3305	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fh9963.d	CAL @ 20ppb	29 Sep 1998 2:05
fh9964.d	CAL @ 20ppb	29 Sep 1998 2:30
fh9965.d	BLANK(A)	29 Sep 1998 2:55
fh9966.d	BLANK(MEOH)	29 Sep 1998 3:21
fh9967.d	AA72753	29 Sep 1998 3:46
fh9968.d	AA72759	29 Sep 1998 4:10
fh9969.d	AA72760	29 Sep 1998 4:36
fh9970.d	AA72761	29 Sep 1998 5:01
fh9971.d	AA72374	29 Sep 1998 5:26
fh9972.d	AA72376	29 Sep 1998 5:51
fh9973.d	AA72502	29 Sep 1998 6:16
fh9974.d	AA72730	29 Sep 1998 6:41
fh9975.d	AA72732	29 Sep 1998 7:06
fh9976.d	AA72731	29 Sep 1998 7:31
fh9977.d	AA72733	29 Sep 1998 7:56
fh9978.d	AA72734	29 Sep 1998 8:21
fh9979.d	AA72484	29 Sep 1998 8:46
fh9980.d	AA72483(1/20)	29 Sep 1998 9:11
fh9981.d	AA72482(1/40)	29 Sep 1998 9:36
fh9982.d	AA72485(1/200)	29 Sep 1998 10:02
fh9983.d	AA71776(1/10)	29 Sep 1998 10:27
fh9984.d	AA72461(1/20)	29 Sep 1998 10:54
fh9985.d	AA72082(1/20)	29 Sep 1998 11:18
fh9986.d	AA72090(1/20)	29 Sep 1998 11:43
fh9987.d	AA72248(1/80)	29 Sep 1998 12:08
fh9988.d	AA72246(1/80)	29 Sep 1998 12:33
fh9989.d	AA72483(1/2)	29 Sep 1998 12:58
fh9990.d	AA72484	29 Sep 1998 13:23

CLPBFB

Data File : G:\GCMSDATA\GCMS_1\09-28-98\FH9962.D
Acq On : 29 Sep 1998 1:42
Sample : CAL BFB TUNE
Misc : A,5mL
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1

Vial: 25
Operator: GVC
Inst : GCMS_1
Multiplr: 1.00



Spectrum Information: Scan 119

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.1	16872	PASS
75	95	30	60	58.5	33912	PASS
95	95	100	100	100.0	57960	PASS
96	95	5	9	7.4	4274	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.9	38776	PASS
175	174	5	9	7.7	2972	PASS
176	174	95	101	98.7	38280	PASS
177	176	5	9	8.6	3305	PASS

Form5
CAL BFB TUNE

Tune File: fh9991.d

Date/Time Analyzed: 29 Sep 1998 13:52

Instrument: gcms_1

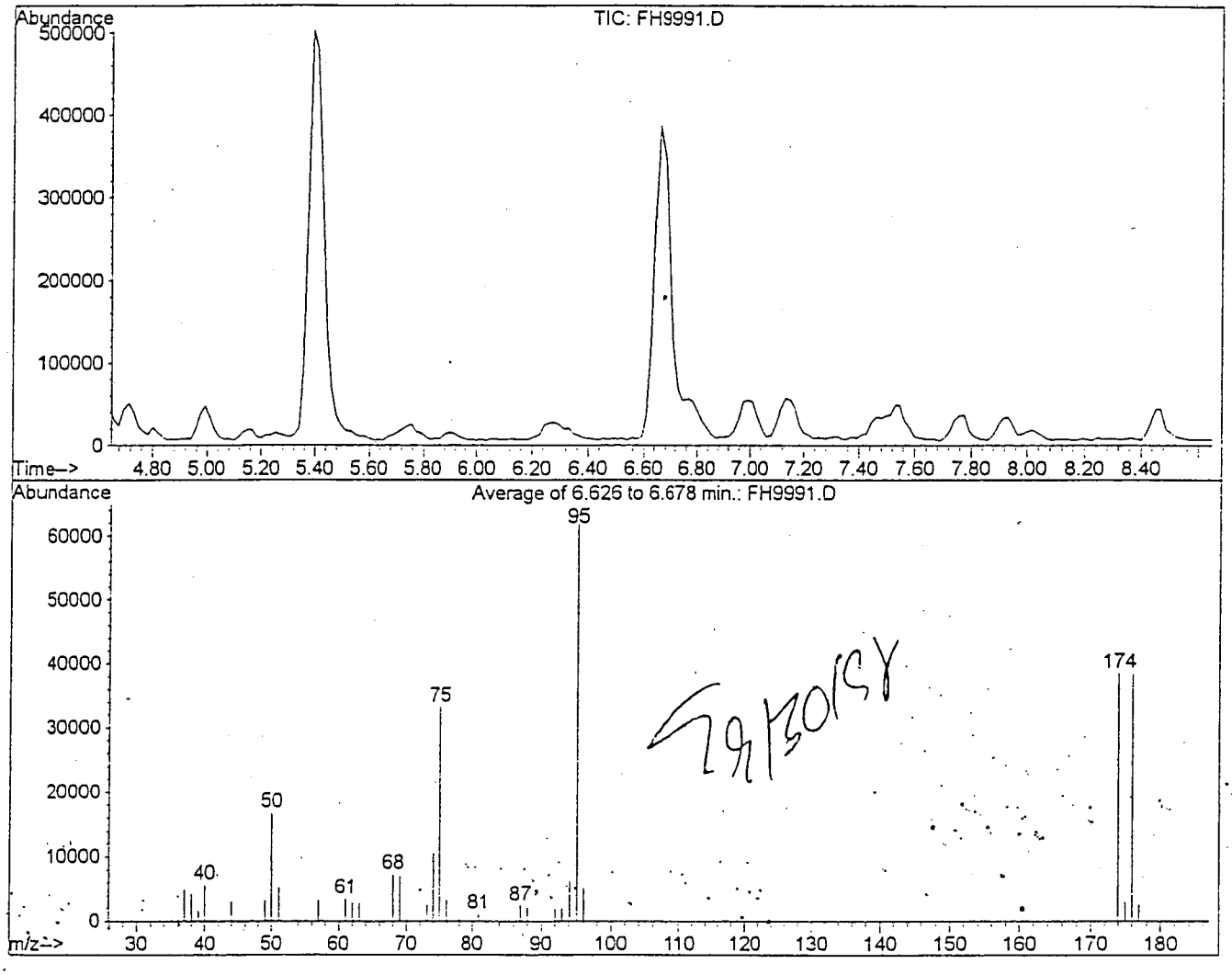
Tune Scan/Time Range: Average of 6.626 to 6.678 min.

Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	27.1	16764	PASS
75	95	30	60	53.8	33216	PASS
95	95	100	100	100.0	61790	PASS
96	95	5	9	8.4	5194	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.5	38638	PASS
175	174	5	9	8.0	3083	PASS
176	174	95	101	99.8	38543	PASS
177	176	5	9	6.6	2552	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fh9992.d	CAL @ 20ppb	29 Sep 1998 14:18
fh9993.d	DAILY BLANK(MEO,	29 Sep 1998 14:58
fh9994.d	AA72506	29 Sep 1998 15:41
fh9995.d	AA72082(1/200)	29 Sep 1998 16:05
fh9996.d	AA72090(1/200)	29 Sep 1998 16:30
fh9997.d	AA72247(1/10)	29 Sep 1998 16:55
fh9998.d	AA72246(1/10)	29 Sep 1998 17:21
fh9999.d	AA72248(1/20)	29 Sep 1998 17:46
fh9999a.d	CAL @ 50ppb	29 Sep 1998 18:12
fh9999b.d	AA72248	29 Sep 1998 18:37
fm0000.d	AA72461(1/20)	29 Sep 1998 19:03
fm0001.d	AA72507(1/10)	29 Sep 1998 19:29
fm0002.d	AA72631(1/10)	29 Sep 1998 19:53
fm0003.d	AA72613	29 Sep 1998 20:19
fm0004.d	AA72607	29 Sep 1998 20:43
fm0005.d	AA72608	29 Sep 1998 21:08
fm0006.d	AA72609	29 Sep 1998 21:34
fm0007.d	AA72610	29 Sep 1998 21:58
fm0008.d	AA72611	29 Sep 1998 22:23
fm0009.d	AA72612	29 Sep 1998 22:49
fm0010.d	MBS(MEOH)	29 Sep 1998 23:13
fm0011.d	AA72506(MS)	29 Sep 1998 23:38
fm0012.d	AA72506(MSD)	30 Sep 1998 00:03
fm0013.d	AA72707	30 Sep 1998 00:28
fm0014.d	AA72708	30 Sep 1998 00:53
fm0015.d	AA72709	30 Sep 1998 1:20
fm0016.d	AA72705	30 Sep 1998 1:45
fm0017.d	AA72706	30 Sep 1998 2:10
fm0018.d	AA72704	30 Sep 1998 2:35
fm0019.d	AA72238	30 Sep 1998 10:47

CLPBFB

Data File : G:\GCMSDATA\GCMS_1\09-29-98\FH9991.D Vial: 1
Acq On : 29 Sep 1998 13:52 Operator: GVC
Sample : CAL BFB TUNE Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MH0923.M (RTE Integrator)
Title : @GCMS_1



Spectrum Information: Average of 6.626 to 6.678 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	16764	PASS
75	95	30	60	53.8	33216	PASS
95	95	100	100	100.0	61790	PASS
96	95	5	9	8.4	5194	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.5	38638	PASS
175	174	5	9	8.0	3083	PASS
176	174	95	101	99.8	38543	PASS
177	176	5	9	6.6	2552	PASS

Form6
Initial Calibration

Method File: G:\GCMSDATA\methods\mh0923.m *Instrument:* GCMS_1

Level #	Data File	Data File Analysis Date	Concentration	Calibration File Update Time
1	FH9844.D	23 Sep 1998 18:15	5	Wed Sep 23 18:57:47 1998
2	FH9843.D	23 Sep 1998 17:50	10	Wed Sep 23 18:57:49 1998
3	FH9842.D	23 Sep 1998 17:26	20	Wed Sep 23 18:57:51 1998
4	FH9841.D	23 Sep 1998 17:01	50	Wed Sep 23 18:57:53 1998
5	FH9840.D	23 Sep 1998 16:36	100	Wed Sep 23 18:57:56 1998
6	FH9839.D	23 Sep 1998 16:11	500	Wed Sep 23 18:57:58 1998

Response Factors

Compound	Fit	Level 1	2	3	4	5	6	Average RF	R.T.	Corr1	Corr2	%Rsd	*/**(limits)	Alternate Curve Conc
Chloromethane	Avg	1.898	1.639	1.695	1.692	1.642	1.298	1.644	3.652	0.9973	1.0000	11.8356	**(0.100)	
Bromomethane	Avg	1.096	1.075	1.163	1.086	1.111	0.896	1.071	4.278	0.9978	1.0000	8.5136		
Vinyl Chloride	Avg	1.384	1.339	1.455	1.439	1.419	1.114	1.358	3.670	0.9970	1.0000	9.3287	*(30)	
Chloroethane	Avg	0.629	0.784	0.895	0.870	0.935	0.729	0.807	4.226	0.9967	0.9999	14.3102		
Trichlorofluoromethane	Avg	1.846	1.684	1.794	1.738	1.744	1.419	1.704	4.522	0.9980	1.0000	8.8141		
Methylene Chloride	Avg	1.794	1.457	1.394	1.320	1.258	1.052	1.379	6.105	0.9987	1.0000	17.8546		
Acrolein	Avg	0.124	0.136	0.134	0.134	0.138	0.115	0.130	5.183	0.9985	1.0000	6.8103		25 50 100 250 500 25
Acrylonitrile	Avg	0.402	0.351	0.347	0.343	0.352	0.287	0.347	6.313	0.9981	1.0000	10.5286		25 50 100 250 500 25
Acetone	Avg	0.414	0.337	0.330	0.297	0.299	0.241	0.320	5.270	0.9982	1.0000	17.9642		25 50 100 250 500 25
Carbon Disulfide	Avg	3.876	3.590	3.612	3.571	3.351	2.781	3.463	6.139	0.9984	1.0000	10.7872		
t-Butyl Alcohol	Avg	0.088	0.109	0.109	0.112	0.113	0.091	0.104	5.513	0.9975	1.0000	10.6549		25 50 100 250 500 25
Di-isopropyl-ether	Avg	5.717	5.250	5.309	5.193	4.965	4.166	5.100	6.818	0.9986	1.0000	10.1736		
1,1-Dichloroethene	Avg	2.477	2.207	2.237	2.146	2.051	1.733	2.142	5.391	0.9988	1.0000	11.4449	*(30)	
Methyl-t-butyl ether	Avg	3.190	2.888	2.966	2.833	2.805	2.291	2.829	6.244	0.9982	1.0000	10.5215		
1,1-Dichloroethane	Avg	3.107	2.798	2.750	2.672	2.499	2.120	2.658	7.061	0.9988	1.0000	12.4173	**(0.100)	
trans-1,2-Dichloroethene	Avg	1.476	1.365	1.327	1.301	1.220	1.060	1.292	6.470	0.9991	1.0000	10.9054		
cis-1,2-Dichloroethene	Avg	2.973	2.610	2.616	2.655	2.423	2.045	2.554	7.896	0.9986	0.9999	11.9865		
2,2-Dichloropropane	Avg	2.612	2.321	2.322	2.360	2.206	1.905	2.287	7.809	0.9990	1.0000	10.0796		
1,1-Dichloropropene	Avg	2.169	1.930	2.173	2.125	2.034	1.690	2.020	8.783	0.9983	1.0000	9.2242		
Chloroform	Avg	3.058	2.714	2.668	2.642	2.480	2.083	2.608	8.088	0.9986	1.0000	12.2594	*(30)	
1,2-Dichloroethane-d4	Avg	0.410	0.364	0.421	0.425	0.414	0.453	0.414	9.044	0.0000	0.0000	7.0031		30 30 30 30 30
1,2-Dichloroethane	Avg	2.037	1.867	1.989	1.966	1.881	1.535	1.879	9.166	0.9980	1.0000	9.6124		
2-Butanone	Avg	0.078	0.119	0.123	0.122	0.116	0.095	0.109	7.670	0.9979	1.0000	16.6283		
1,2-Dibromoethane	Avg	0.309	0.321	0.318	0.328	0.282	0.264	0.304	12.610	0.9995	0.9998	8.3071		
1,1,1-Trichloroethane	Avg	0.488	0.497	0.526	0.528	0.441	0.383	0.477	8.592	0.9985	0.9996	11.7820		
Carbon Tetrachloride	Avg	0.408	0.404	0.458	0.446	0.378	0.330	0.404	8.922	0.9986	0.9996	11.5723		
Vinyl Acetate	Avg	0.661	0.681	0.701	0.697	0.642	0.533	0.653	7.044	0.9982	0.9999	9.5564		
Bromodichloromethane	Avg	0.481	0.504	0.502	0.507	0.435	0.419	0.475	10.453	0.9997	0.9998	8.1104		
Dibromomethane	Avg	0.237	0.226	0.229	0.222	0.198	0.184	0.216	10.557	0.9996	0.9999	9.5244		
1,2-Dichloropropane	Avg	0.378	0.377	0.371	0.374	0.346	0.298	0.357	10.140	0.9989	1.0000	8.8263	*(30)	
cis-1,3-Dichloropropene	Avg	0.428	0.434	0.469	0.474	0.411	0.387	0.434	11.079	0.9996	0.9998	7.6810		
Trichloroethene	Avg	0.313	0.316	0.304	0.303	0.283	0.246	0.294	9.914	0.9991	1.0000	8.9665		
Benzene	Avg	0.981	0.983	1.085	1.040	0.881	0.706	0.946	9.166	0.9970	0.9996	14.3617		
Dibromochloromethane	Avg	0.356	0.369	0.375	0.389	0.338	0.317	0.357	12.401	0.9995	0.9998	7.3763		
2-Chloroethylvinylether	Avg	0.153	0.162	0.169	0.181	0.163	0.154	0.164	10.784	0.9996	0.9999	6.4974		
trans-1,3-Dichloropropene	Avg	0.377	0.397	0.412	0.405	0.359	0.338	0.381	11.636	0.9997	0.9998	7.6067		
1,1,2-Trichloroethane	Avg	0.250	0.255	0.251	0.250	0.211	0.199	0.236	11.827	0.9995	0.9997	10.2580		
1,3-Dichloropropane	Avg	0.471	0.455	0.456	0.445	0.383	0.346	0.426	12.088	0.9993	0.9998	11.6872		
Bromoform	Avg	0.244	0.253	0.281	0.285	0.250	0.230	0.257	14.001	0.9994	0.9998	8.2982	**(0.100)	
4-Methyl-2-Pentanone	Avg	0.399	0.441	0.445	0.429	0.464	0.336	0.419	10.784	0.9944	0.9998	11.0036		
2-Hexanone	Avg	0.090	0.132	0.170	0.173	0.194	0.141	0.150	11.792	0.9940	0.9998	24.7826		
Tetrachloroethene	Avg	0.261	0.290	0.276	0.259	0.247	0.190	0.254	12.123	0.9967	1.0000	13.6043		
1,1,2,2-Tetrachloroethane	Avg	0.406	0.420	0.398	0.380	0.375	0.275	0.376	14.088	0.9951	1.0000	13.8856	**(0.300)	
Toluene-d8	Avg	0.247	0.263	0.264	0.258	0.264	0.246	0.258	11.340	0.0000	0.0000	3.6017		30 30 30 30 30
Toluene	Avg	0.683	0.696	0.668	0.621	0.596	0.447	0.618	11.427	0.9960	1.0000	14.9116	*(30)	
1,1,1,2-Tetrachloroethane	Avg	0.315	0.323	0.316	0.302	0.286	0.213	0.293	13.045	0.9956	1.0000	14.0115		
Chlorobenzene	Avg	0.771	0.769	0.734	0.685	0.648	0.448	0.676	13.010	0.9927	1.0000	17.9671	**(0.300)	
Ethylbenzene	Avg	0.135	0.143	0.123	0.122	0.121	0.075	0.120	13.027	0.9861	0.9999	19.7110	*(30)	
Bromofluorobenzene	Avg	0.511	0.522	0.519	0.487	0.493	0.450	0.497	14.158	0.0000	0.0000	5.4389		30 30 30 30 30
Styrene	Avg	0.687	0.778	0.776	0.732	0.709	0.499	0.697	13.601	0.9931	1.0000	14.8598		
m&p-Xylenes	Avg	0.483	0.460	0.466	0.421	0.387	0.271	0.415	13.097	0.9931	0.9999	18.9661		10 20 40 100 200 10
o-Xylene	Avg	0.450	0.485	0.477	0.453	0.431	0.318	0.436	13.549	0.9952	1.0000	13.9954		
1,3-Dichlorobenzene	Avg	0.591	0.590	0.603	0.565	0.532	0.345	0.538	15.167	0.9886	1.0000	18.1504		
1,4-Dichlorobenzene	Avg	0.651	0.675	0.662	0.593	0.559	0.356	0.583	15.271	0.9877	1.0000	20.5558		
1,2-Dichlorobenzene	Avg	0.593	0.597	0.597	0.542	0.515	0.334	0.530	15.602	0.9890	1.0000	19.2123		
Isopropylbenzene	Avg	0.894	0.919	0.916	0.866	0.819	0.568	0.830	13.880	0.9925	1.0000	16.1078		
1,2,3-Trichloropropane	Avg	0.363	0.422	0.397	0.354	0.489	0.292	0.386	14.227	0.9817	0.9974	17.3879		
4-Chlorotoluene	Avg	0.423	0.470	0.487	0.424	0.382	0.213	0.400	14.488	0.9752	0.9998	24.6898		
2-Chlorotoluene	Avg	0.423	0.470	0.487	0.424	0.382	0.213	0.400	14.488	0.9752	0.9998	24.6898		
n-Propylbenzene	Avg	1.304	1.343	1.312	1.226	1.144	0.690	1.170	14.262	0.9833	1.0000	21.0160		
Bromobenzene	Avg	0.877	0.918	0.877	0.794	0.749	0.525	0.790	14.367	0.9933	1.0000	18.2273		
1,3,5-Trimethylbenzene	Avg	0.943	1.004	0.980	0.896	0.831	0.549	0.868	14.384	0.9899	1.0000	19.3582		
t-Butylbenzene	Avg	0.830	0.866	0.871	0.826	0.773	0.546	0.794	14.732	0.9933	1.0000	16.0893		
1,2,4-Trimethylbenzene	Avg	0.958	1.007	0.980	0.920	0.849	0.550	0.877	14.767	0.9886	1.0000	19.2947		
sec-Butylbenzene	Avg	1.003	1.056	1.038	0.962	0.904	0.598	0.927	14.906	0.9900	1.0000	18.3747		
4-Isopropyltoluene	Avg	0.825	0.852	0.890	0.848	0.778	0.523	0.786	15.028	0.9905	0.9999	17.0277		
n-Butylbenzene	Avg	0.797	0.826	0.854	0.796	0.750	0.456	0.746	15.393	0.9837	1.0000	19.6276		
1,2-Dibromo-3-Chloropropa	Avg	0.070	0.090	0.088	0.085	0.095	0.067	0.083	16.297	0.9933	0.9997	13.7057		
Hexachlorobutadiene	Avg	0.230	0.225	0.241	0.217	0.209	0.131	0.209	17.097	0.9864	1.0000	18.9482		
1,2,4-Trichlorobenzene	Avg	0.423	0.442	0.448	0.419	0.398	0.253	0.397	17.011	0.9872	1.0000	18.3816		
1,2,3-Trichlorobenzene	Avg	0.426	0.438	0.409	0.388	0.371	0.233	0.377	17.480	0.9867	1.0000	19.8429		
Naphthalene	Avg	0.856	0.888	0.888	0.808	0.816	0.477	0.789	17.271	0.9809	0.9999	19.8425		

Avg Rsd: 13.5741

Flags
a - failed the spcc criteria * - ccc compound
b - failed the ccc criteria ** - spcc compound
c - failed the minimum correlation coeff criteria(if applicabl

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compoun

Form7

CONTINUING CALIBRATION FORM 8260

Data file: fh9964.d

Calibration Name: CAL @ 20ppb

Calibration Date/Time: 29 Sep 1998 2:30

Instrument: gcms_1

Compound	Init R.F.	Cont R.T.	Cont R.F.	Conc Exp	Conc Found	%Diff	Limit(s)
Bromochloromethane		8.36	IS				
Chloromethane	1.6440	3.70	1.0914	20.00	13.28	34 P	0.100
Bromomethane	1.0711	4.28	1.0604	20.00	19.80	1.0	"
Vinyl Chloride	1.3582	3.76	1.1275	20.00	16.60	17 C	20
Chloroethane	0.8069	4.24	0.8951	20.00	22.18	11	"
Trichlorofluoromethane	1.7042	4.56	1.9380	20.00	22.74	14	"
Methylene Chloride	1.3790	6.14	1.4805	20.00	21.47	7.3	"
Acrolein	0.1301	5.22	0.1297	100.00	99.72	0.28	"
Acrylonitrile	0.3469	6.33	0.3986	100.00	114.89	15	"
Acetone	0.3197	5.29	0.3696	100.00	115.59	16	"
Carbon Disulfide	3.4634	6.16	2.8613	20.00	16.52	17	"
t-Butyl Alcohol	0.1036	5.53	0.1383	100.00	133.43	33	"
Di-isopropyl-ether	5.1000	6.85	5.5816	20.00	21.89	9.5	"
1,1-Dichloroethene	2.1420	5.43	2.0274	20.00	18.93	5.4 C	20
Methyl-t-butyl ether	2.8288	6.26	3.1470	20.00	22.25	11	"
1,1-Dichloroethane	2.6577	7.10	2.9114	20.00	21.91	9.5 P	0.100
trans-1,2-Dichloroethene	1.2917	6.49	1.4049	20.00	21.75	8.7	"
cis-1,2-Dichloroethene	2.5536	7.91	2.7507	20.00	21.54	7.7	"
2,2-Dichloropropane	2.2875	7.83	2.0278	20.00	17.73	11	"
1,1-Dichloropropene	2.0202	8.82	2.2077	20.00	21.86	9.3	"
Chloroform	2.6077	8.12	3.0325	20.00	23.26	16 C	20
1,2-Dichloroethane-d4	0.4144	9.08	0.3822	30.00	27.67	7.8	"
1,2-Dichloroethane	1.8792	9.18	2.0851	20.00	22.19	11	"
1,4-Difluorobenzene		9.51	IS				
2-Butanone	0.1089	7.69	0.1315	20.00	24.14	21	"
1,2-Dibromoethane	0.3038	12.63	0.3666	20.00	24.13	21	"
1,1,1-Trichloroethane	0.4773	8.63	0.5660	20.00	23.71	19	"
Carbon Tetrachloride	0.4040	8.94	0.4794	20.00	23.73	19	"
Vinyl Acetate	0.6525	7.08	0.5339	20.00	16.36	18	"
Bromodichloromethane	0.4746	10.47	0.5888	20.00	24.81	24	"
Dibromomethane	0.2159	10.57	0.2533	20.00	23.47	17	"
1,2-Dichloropropane	0.3575	10.16	0.4186	20.00	23.42	17 C	20
cis-1,3-Dichloropropene	0.4338	11.08	0.4970	20.00	22.91	15	"
Trichloroethene	0.2942	9.93	0.3622	20.00	24.62	23	"
Benzene	0.9462	9.20	1.0509	20.00	22.21	11	"
Dibromochloromethane	0.3573	12.42	0.4411	20.00	24.68	23	"
2-Chloroethylvinylether	0.1635	10.78	0.1732	20.00	21.18	5.9	"
trans-1,3-Dichloropropene	0.3812	11.65	0.4408	20.00	23.12	16	"
1,1,2-Trichloroethane	0.2361	11.83	0.2913	20.00	24.67	23	"
1,3-Dichloropropane	0.4261	12.10	0.5162	20.00	24.23	21	"
Bromoform	0.2571	14.00	0.3134	20.00	24.38	22 P	0.100
Chlorobenzene-d5		12.99	IS				
4-Methyl-2-Pentanone	0.4190	10.80	0.4717	20.00	22.51	13	"
2-Hexanone	0.1501	11.79	0.1777	20.00	23.68	18	"
Tetrachloroethene	0.2540	12.14	0.2982	20.00	23.49	17	"
1,1,2,2-Tetrachloroethane	0.3756	14.09	0.4400	20.00	23.43	17 P	0.300
Toluene-d8	0.2577	11.36	0.2362	30.00	27.50	8.3	"
Toluene	0.6185	11.44	0.7165	20.00	23.17	16 C	20
1,1,1,2-Tetrachloroethane	0.2927	13.06	0.3436	20.00	23.48	17	"
Chlorobenzene	0.6758	13.03	0.7804	20.00	23.09	15 P	0.300
Ethylbenzene	0.1199	13.04	0.1454	20.00	22.70	13 C	20
Bromofluorobenzene	0.4970	14.17	0.4972	30.00	30.01	0.03	"
Styrene	0.6968	13.60	0.8488	20.00	24.36	22	"
m&p-Xylenes	0.4148	13.11	0.4764	40.00	45.94	15	"
o-Xylene	0.4356	13.57	0.5082	20.00	23.33	17	"
1,3-Dichlorobenzene	0.5376	15.18	0.6428	20.00	23.91	20	"
1,4-Dichlorobenzene	0.5826	15.27	0.6931	20.00	23.79	19	"
1,2-Dichlorobenzene	0.5296	15.62	0.6213	20.00	23.46	17	"
Isopropylbenzene	0.8303	13.90	0.9530	20.00	22.95	15	"
1,2,3-Trichloropropane	0.3863	14.23	0.4048	20.00	20.96	4.8	"
4-Chlorotoluene	0.4000	14.50	0.5052	20.00	25.26	26	"
2-Chlorotoluene	0.4000	14.50	0.5052	20.00	25.26	26	"
n-Propylbenzene	1.1698	14.26	1.4007	20.00	23.95	20	"
Bromobenzene	0.7899	14.37	0.9619	20.00	24.36	22	"
1,3,5-Trimethylbenzene	0.8680	14.40	1.0253	20.00	23.62	18	"
t-Butylbenzene	0.7937	14.73	0.9112	20.00	22.96	15	"
1,2,4-Trimethylbenzene	0.8775	14.77	1.0172	20.00	23.18	16	"
sec-Butylbenzene	0.9268	14.92	1.0853	20.00	23.42	17	"
4-Isopropyltoluene	0.7860	15.03	0.9120	20.00	23.21	16	"
n-Butylbenzene	0.7464	15.39	0.8741	20.00	23.42	17	"
1,2-Dibromo-3-Chloropropane	0.0825	16.30	0.1032	20.00	25.01	25	"
Hexachlorobutadiene	0.2086	17.10	0.2291	20.00	21.96	9.8	"
1,2,4-Trichlorobenzene	0.3971	17.03	0.4559	20.00	22.96	15	"
1,2,3-Trichlorobenzene	0.3774	17.48	0.4347	20.00	23.04	15	"
Naphthalene	0.7888	17.29	0.9530	20.00	24.16	21	"
Dichlorodifluoromethane		N/Q					
1,2-Dioxane		N/Q					

C - Continuing Calibration Check Compound
P - System Performance Check Compound
N/O or N/Q - Not applicable for this run
** - Failed the C or P Criteria*
*** - No limit specified in method*
IS - Internal Standard

Note: 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found.
8260/8270 limits are compared against the %DIFF/R.F.
524.2 limits are compared against the %DIFF

Form7

CONTINUING CALIBRATION FORM 8260

Data file: fh9992.d

Calibration Name: CAL @ 20ppb

Calibration Date/Time: 29 Sep 1998 14:18

Instrument: gcms_1

Compound	Init R.F.	Cont R.T.	Cont R.F.	Conc Exp	Conc Found	%Diff	Limit(s)
Bromochloromethane		8.35	IS				
Chloromethane	1.6440	3.69	1.1523	20.00	14.02	30 P	0.100
Bromomethane	1.0711	4.25	1.0929	20.00	20.41	2.1	**
Vinyl Chloride	1.3582	3.74	1.1831	20.00	17.42	13 C	20
Chloroethane	0.8069	4.22	0.3503	20.00	8.68	57	**
Trichlorofluoromethane	1.7042	4.54	2.0248	20.00	23.76	19	**
Methylene Chloride	1.3790	6.10	1.5322	20.00	22.22	11	**
Acrolein	0.1301	5.20	0.1409	100.00	108.32	8.3	**
Acrylonitrile	0.3469	6.33	0.3699	100.00	106.63	6.6	**
Acetone	0.3197	5.27	0.3513	100.00	109.86	9.9	**
Carbon Disulfide	3.4634	6.14	2.7064	20.00	15.63	22	**
t-Butyl Alcohol	0.1036	5.51	0.1264	100.00	121.98	22	**
Di-isopropyl-ether	5.1000	6.83	5.5278	20.00	21.68	8.4	**
1,1-Dichloroethene	2.1420	5.41	2.0102	20.00	18.77	6.2 C	20
Methyl-t-butyl ether	2.8288	6.26	3.1060	20.00	21.96	9.8	**
1,1-Dichloroethane	2.6577	7.08	2.9865	20.00	22.47	12 P	0.100
trans-1,2-Dichloroethene	1.2917	6.47	1.4065	20.00	21.78	8.9	**
cis-1,2-Dichloroethene	2.5536	7.89	2.7377	20.00	21.44	7.2	**
2,2-Dichloropropane	2.2875	7.81	2.4777	20.00	21.66	8.3	**
1,1-Dichloropropene	2.0202	8.80	2.2440	20.00	22.22	11	**
Chloroform	2.6077	8.10	3.1765	20.00	22.14	11 C	20
1,2-Dichloroethane-d4	0.4144	9.06	0.4631	30.00	33.53	12	**
1,2-Dichloroethane	1.8792	9.18	2.3914	20.00	25.45	27	**
1,4-Difluorobenzene		9.49	IS				
2-Butanone	0.1089	7.67	0.1132	20.00	20.79	3.9	**
1,2-Dibromoethane	0.3038	12.63	0.3366	20.00	22.16	11	**
1,1,1-Trichloroethane	0.4773	8.61	0.5361	20.00	22.46	12	**
Carbon Tetrachloride	0.4040	8.94	0.4519	20.00	22.37	12	**
Vinyl Acetate	0.6525	7.06	0.6401	20.00	19.62	1.9	**
Bromodichloromethane	0.4746	10.47	0.5888	20.00	24.81	24	**
Dibromomethane	0.2159	10.56	0.2475	20.00	22.93	15	**
1,2-Dichloropropane	0.3575	10.16	0.4177	20.00	23.37	17 C	20
cis-1,3-Dichloropropene	0.4338	11.08	0.5205	20.00	24.00	20	**
Trichloroethene	0.2942	9.93	0.3522	20.00	23.95	20	**
Benzene	0.9462	9.18	1.0705	20.00	22.63	13	**
Dibromochloromethane	0.3573	12.42	0.3900	20.00	21.83	9.1	**
2-Chloroethylvinylether	0.1635	10.78	0.1865	20.00	22.81	14	**
trans-1,3-Dichloropropene	0.3812	11.65	0.4531	20.00	23.77	19	**
1,1,2-Trichloroethane	0.2361	11.83	0.2859	20.00	24.22	21	**
1,3-Dichloropropane	0.4261	12.10	0.4795	20.00	22.51	13	**
Bromoform	0.2571	14.02	0.2706	20.00	21.05	5.3 P	0.100
Chlorobenzene-d5		12.99	IS				
4-Methyl-2-Pentanone	0.4190	10.80	0.5310	20.00	25.35	27	**
2-Hexanone	0.1501	11.79	0.1935	20.00	25.79	29	**
Tetrachloroethene	0.2540	12.14	0.3212	20.00	25.29	26	**
1,1,2,2-Tetrachloroethane	0.3756	14.10	0.4519	20.00	24.06	20 P	0.300
Toluene-d8	0.2577	11.34	0.2614	30.00	30.43	1.4	**
Toluene	0.6185	11.44	0.8121	20.00	22.81	14 C	20
1,1,1,2-Tetrachloroethane	0.2927	13.06	0.3575	20.00	24.43	22	**
Chlorobenzene	0.6758	13.03	0.8125	20.00	24.04	20 P	0.300
Ethylbenzene	0.1199	13.04	0.1430	20.00	23.84	19 C	20
Bromofluorobenzene	0.4970	14.17	0.5009	30.00	30.23	0.77	**
Styrene	0.6968	13.62	0.8814	20.00	25.30	27	**
m&p-Xylenes	0.4148	13.11	0.5066	40.00	48.86	22	**
o-Xylene	0.4356	13.57	0.5350	20.00	24.56	23	**
1,3-Dichlorobenzene	0.5376	15.20	0.6497	20.00	24.17	21	**
1,4-Dichlorobenzene	0.5826	15.29	0.6926	20.00	23.77	19	**
1,2-Dichlorobenzene	0.5296	15.63	0.6530	20.00	24.66	23	**
Isopropylbenzene	0.8303	13.90	0.9828	20.00	23.67	18	**
1,2,3-Trichloropropane	0.3863	14.24	0.4520	20.00	23.40	17	**
4-Chlorotoluene	0.4000	14.50	0.5061	20.00	25.31	27	**
2-Chlorotoluene	0.4000	14.50	0.5061	20.00	25.31	27	**
n-Propylbenzene	1.1698	14.28	1.4209	20.00	24.29	21	**
Bromobenzene	0.7899	14.38	0.9538	20.00	24.15	21	**
1,3,5-Trimethylbenzene	0.8680	14.42	1.0498	20.00	24.19	21	**
t-Butylbenzene	0.7937	14.75	0.9366	20.00	23.60	18	**
1,2,4-Trimethylbenzene	0.8775	14.78	1.0616	20.00	24.20	21	**
sec-Butylbenzene	0.9268	14.94	1.1143	20.00	24.05	20	**
4-Isopropyltoluene	0.7860	15.04	0.9582	20.00	24.38	22	**
n-Butylbenzene	0.7464	15.41	0.8895	20.00	23.83	19	**
1,2-Dibromo-3-Chloropropane	0.0825	16.31	0.0975	20.00	23.63	18	**
Hexachlorobutadiene	0.2086	17.11	0.2392	20.00	22.93	15	**
1,2,4-Trichlorobenzene	0.3971	17.04	0.4633	20.00	23.33	17	**
1,2,3-Trichlorobenzene	0.3774	17.50	0.4365	20.00	23.13	16	**
Naphthalene	0.7888	17.30	0.9425	20.00	23.90	19	**
Dichlorodifluoromethane		N/Q					
1,2-Dioxane		N/Q					

C - Continuing Calibration Check Compound
P - System Performance Check Compound
N/O or N/Q - Not applicable for this run
** - Failed the C or P Criteria*
*** - No limit specified in method*
IS - Internal Standard

Note: 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found.
8260/8270 limits are compared against the %DIFF/R.F.
524.2 limits are compared against the %DIFF

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fh9842.d

Lab Sample ID: CAL @ 20 PPB

Date/Time Analyzed: 23 Sep 1998 17:26

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	238253	8.35	988935	9.50	901411	12.98						
Lower Limit:	119129	7.85	494468	9.00	450706	12.48						
Upper Limit:	476516	8.85	1977870	10.00	1802822	13.48						

Data File	*Sample Number*	*Date/Time Analyzed*											
fh9839.d	CAL @ 500 PPB	23 Sep 1998 16:11	243656	8.34	1141841	9.48	1171848	12.98					
fh9840.d	CAL @ 100 PPB	23 Sep 1998 16:36	251274	8.35	1175886	9.49	975189	12.99					
fh9841.d	CAL @ 50 PPB	23 Sep 1998 17:01	240173	8.35	1016695	9.50	972113	12.97					
fh9843.d	CAL @ 10 PPB	23 Sep 1998 17:50	246907	8.35	1016684	9.49	896576	12.97					
fh9844.d	CAL @ 5 PPB	23 Sep 1998 18:15	217648	8.35	1028779	9.48	944602	12.98					
fh9845.d	DAILY BLANK(A)	23 Sep 1998 18:40	253602	8.35	1041143	9.49	908477	12.97					
fh9846.d	DAILY BLANK(A)	23 Sep 1998 19:11	255982	8.35	1169576	9.49	925461	12.99					
fh9847.d	DAILY BLANK(MEO	23 Sep 1998 19:37	250444	8.36	1034009	9.51	937141	12.99					
fh9848.d	AA72301	23 Sep 1998 20:02	229194	8.37	1066819	9.50	949886	13.00					
fh9849.d	AA72302	23 Sep 1998 20:27	243160	8.37	1041022	9.50	950648	13.00					
fh9850.d	AA72307	23 Sep 1998 20:55	253497	8.36	1063963	9.50	977517	12.99					
fh9851.d	AA72171	23 Sep 1998 21:20	234568	8.37	1080836	9.50	961691	13.00					
fh9852.d	AA72177	23 Sep 1998 21:45	225991	8.37	1074554	9.52	952508	13.00					
fh9853.d	AA72179	23 Sep 1998 22:10	235806	8.37	1075930	9.52	960245	12.99					
fh9854.d	AA72168	23 Sep 1998 22:35	259050	8.36	1091879	9.51	962599	12.99					
fh9855.d	AA72170	23 Sep 1998 23:00	232419	8.35	1069179	9.50	954556	13.00					
fh9856.d	AA71588	23 Sep 1998 23:25	233871	8.35	1095431	9.49	982346	12.99					
fh9857.d	AA72084	23 Sep 1998 23:50	252725	8.35	1106453	9.50	997504	12.98					
fh9858.d	AA72085	24 Sep 1998 00:15	229058	8.35	1062109	9.50	956180	13.00					
fh9859.d	AA72086	24 Sep 1998 00:40	228254	8.35	1053515	9.50	979243	12.97					
fh9860.d	AA72087	24 Sep 1998 1:05	250382	8.35	1060482	9.50	975582	12.98					
fh9861.d	AA72088	24 Sep 1998 1:30	229446	8.35	1091780	9.50	996561	12.98					
fh9862.d	AA72083	24 Sep 1998 1:55	225758	8.35	1237355	9.50	1008583	12.99					
fh9863.d	AA72091	24 Sep 1998 2:20	229985	8.35	1267394	9.49	987003	12.99					
fh9864.d	MBS(MEOH)	24 Sep 1998 2:45	224477	8.35	1081424	9.50	954650	12.99					
fh9865.d	AA72085(MS)	24 Sep 1998 3:10	227512	8.35	1089144	9.50	972021	12.98					
fh9866.d	AA72085(MSD)	24 Sep 1998 3:35	224276	8.35	1071627	9.49	962542	12.99					
fh9867.d	BLANK	24 Sep 1998 4:00	221927	8.35	1016350	9.50	936679	12.99					
fh9868.d	BLANK	24 Sep 1998 4:25	251568	8.35	1049360	9.50	936211	12.98					
fh9869.d	BLANK	24 Sep 1998 4:50	250496	8.35	1044855	9.50	941601	12.97					
fh9870.d	AA72078	24 Sep 1998 5:15	252588	8.35	1043579	9.50	948841	12.98					
fh9871.d	AA72079	24 Sep 1998 5:40	248332	8.35	1162348	9.49	941159	12.97					
fh9872.d	AA72076	24 Sep 1998 6:05	255749	8.36	1176684	9.49	941250	12.97					
fh9873.d	AA72077	24 Sep 1998 6:30	255342	8.35	1166509	9.50	947662	12.97					
fh9874.d	AA72075	24 Sep 1998 6:55	259862	8.36	1169943	9.49	945890	12.97					

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

Lower Limit = - 50% of internal standard of daily cal from previous cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fh9842.d

Lab Sample ID: CAL @ 20 PPB

Date/Time Analyzed: 23 Sep 1998 17:26

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	238258	8.35	988935	9.50	901411	12.98						
Lower Limit:	119129	7.85	494468	9.00	450706	12.48						
Upper Limit:	476516	8.85	1977870	10.00	1802822	13.48						

Data File	*Sample Number*	*Date/Time Analyzed*											
fh9964.d	CAL @ 20ppb	29 Sep 1998	2:30	230310	8.36	972982	9.51	930252	12.99				
fh9965.d	BLANK(A)	29 Sep 1998	2:55	211043	8.37	988881	9.51	921089	12.99				
fh9966.d	BLANK(MEOH)	29 Sep 1998	3:21	210887	8.36	1007639	9.51	907157	12.99				
fh9967.d	AA72753	29 Sep 1998	3:46	204350	8.36	1015885	9.51	942114	12.99				
fh9968.d	AA72759	29 Sep 1998	4:10	207719	8.37	999130	9.51	925739	12.99				
fh9969.d	AA72760	29 Sep 1998	4:36	213325	8.37	986377	9.52	918920	13.00				
fh9970.d	AA72761	29 Sep 1998	5:01	210602	8.35	1021430	9.50	939965	12.98				
fh9971.d	AA72374	29 Sep 1998	5:26	226924	8.35	1022949	9.50	932153	13.00				
fh9972.d	AA72376	29 Sep 1998	5:51	212230	8.35	1039405	9.50	951599	12.99				
fh9973.d	AA72502	29 Sep 1998	6:16	209909	8.36	996479	9.51	908974	12.99				
fh9974.d	AA72730	29 Sep 1998	6:41	203194	8.35	970772	9.50	912333	12.97				
fh9975.d	AA72732	29 Sep 1998	7:06	215241	8.36	1000984	9.51	931387	12.99				
fh9976.d	AA72731	29 Sep 1998	7:31	223202	8.37	1033042	9.52	947009	12.99				
fh9977.d	AA72733	29 Sep 1998	7:56	216165	8.38	991229	9.53	900572	12.99				
fh9978.d	AA72734	29 Sep 1998	8:21	217773	8.36	1015241	9.51	938313	12.99				
fh9979.d	AA72484	29 Sep 1998	8:46	215105	8.36	1032776	9.51	981637	12.99				
fh9980.d	AA72483(1/20)	29 Sep 1998	9:11	216389	8.37	1006994	9.52	948403	13.00				
fh9981.d	AA72482(1/40)	29 Sep 1998	9:36	227495	8.37	1029222	9.51	957641	12.99				
fh9982.d	AA72485(1/200)	29 Sep 1998	10:02	217035	8.36	1031492	9.51	966051	12.99				
fh9983.d	AA71776(1/10)	29 Sep 1998	10:27	221589	8.36	1080291	9.51	995319	12.99				
fh9984.d	AA72461(1/20)	29 Sep 1998	10:54	242231	8.35	1112008	9.50	951437	12.98				
fh9985.d	AA72082(1/20)	29 Sep 1998	11:18	242723	8.34	1352624	9.48	995733	12.98				
fh9986.d	AA72090(1/20)	29 Sep 1998	11:43	238487	8.34	1185088	9.48	1005759	12.96				
fh9987.d	AA72248(1/80)	29 Sep 1998	12:08	203322	8.33	1019059	9.48	962583	12.98				
fh9988.d	AA72246(1/80)	29 Sep 1998	12:33	232536	8.35	1010662	9.49	941882	12.97				
fh9989.d	AA72483(1/2)	29 Sep 1998	12:58	227362	8.35	1075557	9.50	969559	12.98				
fh9990.d	AA72484	29 Sep 1998	13:23	220538	8.35	1047026	9.49	881262	12.97				

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

Lower Limit = - 50% of internal standard of daily cal from previous cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

624/8260 MDL STUDY

MDL run @ 2 ppb Analyzed on 01/07/98&01/15/98 Analyst: Yuhsin Instrument: GC/MS #1
Column: Supelco Vocol 105m .53mm id 3um film thickness

Compound	fn6301.d	fn6302.d	fn6303.d	fn6304.d	fn6439.d	fn6440.d	fn6441.d	fn6442.d		AVG	STDDEV	MDL
Chloromethane	2.7	2.66	2.41	2.6	3.36	2.68	3.02	2.58		2.7512	0.2994	0.8976
Bromomethane	2.22	1.79	2.06	1.86	2.47	2.22	2.4	2.49		2.1888	0.2673	0.8013
Vinyl Chloride	0.74	1.09	0.59	1.2	1.84	1.77	1.73	1.57		1.3163	0.484	1.4511
Chloroethane	2.24	2.18	2.17	1.7	2.37	1.97	2.18	2.1		2.1138	0.202	0.6056
Trichlorofluoromethane	2.49	2.39	2.43	2.43	2.84	2.21	2.43	2.19		2.4263	0.1997	0.5987
Methylene Chloride	3.5	3.5	3.48	3.57	4.42	4.1	4.16	4.05		3.8475	0.3749	1.1239
Acetone	9.24	6.67	6.43	7.12	12.37	13.01	12.84	12.62		10.0375	2.9833	8.944
Carbon Disulfide	2.13	2.08	2.07	2.03	2.58	2.15	2.28	2.18		2.1875	0.1763	0.5285
1,1-Dichloroethene	2.03	2.06	1.92	1.94	2.49	2.1	2.18	2.03		2.0938	0.1803	0.5406
1,1-Dichloroethane	2.05	2.09	2.05	1.98	2.47	2.17	2.25	2.14		2.15	0.1537	0.4608
Cis-1,2-Dichloroethene	1.89	1.94	1.93	1.95	2.37	2.1	2.15	2.02		2.0438	0.1593	0.4775
Trans-1,2-Dichloroethen	2.01	2.15	1.96	2.08	2.54	2.11	2.28	2.09		2.1525	0.1831	0.549
Chloroform	2.21	2.25	2.2	2.39	2.66	2.37	2.45	2.34		2.3588	0.151	0.4528
1,2-Dichloroethane	1.78	1.91	1.93	1.89	2.36	2.22	2.15	2.02		2.0325	0.1949	0.5844
1,1,1-Trichloroethane	2.38	2.18	2.1	2.36	2.58	2.3	2.39	2.28		2.3213	0.1453	0.4355
Carbon Tetrachloride	2.07	1.99	2.02	2.09	2.59	2.24	2.31	2.17		2.185	0.1965	0.5892
Vinyl Acetate	0.89	0.85	0.95	0.88	1.92	1.56	1.47	1.69		1.2763	0.4306	1.291
Bromodichloromethane	1.91	1.82	2.01	2.36	2.34	2.03	2.13	2.09		2.0862	0.1898	0.569
1,2-Dichloropropane	1.92	1.87	1.86	2.24	2.28	2.08	2.09	2.07		2.045	0.1588	0.4762
cis-1,3-Dichloropropene	1.62	1.61	1.71	2.08	2.07	1.77	1.93	1.86		1.8312	0.1857	0.5568
Trichloroethene	2.17	2.13	1.94	2.25	2.56	2.21	2.25	2.1		2.2013	0.1765	0.5292
Dibromochloromethane	1.87	1.76	2.05	2.49	2.14	1.97	2.05	2.02		2.0438	0.2155	0.6462
1,1,2-Trichloroethane	1.7	1.58	1.8	2.29	2.22	2.05	2.08	2.21		1.9913	0.2649	0.7942
Benzene	2.36	2.24	2.23	2.43	2.68	2.35	2.48	2.34		2.3887	0.1449	0.4343
Trans-1,3-Dichloroprope	1.55	1.23	1.52	1.86	1.94	1.59	1.7	1.82		1.6513	0.2288	0.686
Bromoform	1.76	1.57	1.89	2.41	1.89	1.66	1.95	1.82		1.8687	0.2528	0.758
Tetrachloroethene	2.13	2.3	2.25	2.29	2.77	2.1	2.3	2.24		2.2975	0.2056	0.6164
1,1,2,2-Tetrachloroethan	1.65	1.61	2.08	2.55	2.06	2.05	2.02	2.04		2.0075	0.2906	0.8712
Toluene	2.16	2.12	2.2	2.42	2.72	2.36	2.41	2.29		2.335	0.1923	0.5765
Chlorobenzene	2.45	2.41	2.53	2.81	2.75	2.45	2.55	2.44		2.5488	0.151	0.4528
Ethylbenzene	2	2.09	2.17	2.48	2.79	2.39	2.64	2.53		2.3863	0.2779	0.8331
Styrene	2.12	2.05	2.22	2.38	2.48	2.02	2.25	2.14		2.2075	0.1595	0.4783
m&p-Xylenes	4.94	4.78	5	5.3	6.15	5.43	5.5	5.23		5.2912	0.4266	1.2788
o-Xylene	2.28	2.17	2.3	2.54	2.58	2.31	2.29	2.18		2.3312	0.1512	0.4534
1,3-Dichlorobenzene	2.27	2.43	2.58	2.55	2.74	2.24	2.42	2.35		2.4475	0.1685	0.5052
1,2-Dichlorobenzene	2.2	2.26	2.54	2.4	2.52	2.11	2.42	2.23		2.335	0.1573	0.4716
1,4-Dichlorobenzene	2.37	2.5	2.76	2.55	2.69	2.29	2.62	2.37		2.5188	0.1672	0.5013
Methyl-t-butyl ether	1.61	1.64	1.54	1.85	2.05	1.9	1.93	1.85		1.7963	0.1787	0.5358
Di-isopropyl-ether	1.88	1.82	1.88	2.07	2.05	1.87	1.87	1.77		1.9013	0.1051	0.315
Isopropylbenzene	2.34	2.32	2.46	2.5	2.78	2.34	2.53	2.28		2.4438	0.1637	0.4908
n-Propylbenzene	2.61	2.68	2.8	2.76	2.82	2.4	2.6	2.34		2.6263	0.1783	0.5346
1,3,5-Trimethylbenzene	2.52	2.5	2.7	2.55	2.99	2.78	2.79	2.55		2.6725	0.1732	0.5192
t-Butylbenzene	2.55	2.69	2.78	2.66	2.92	2.57	2.78	2.47		2.6775	0.1469	0.4405
1,2,4-Trimethylbenzene	2.52	2.57	2.76	2.65	3.07	2.81	2.81	2.58		2.7212	0.1802	0.5402
sec-Butylbenzene	2.4	2.58	2.77	2.41	3.08	2.57	2.86	2.55		2.665	0.2327	0.6976
4-Isopropyltoluene	2.96	3.08	3.3	2.89	3.23	2.82	3.07	2.75		3.0125	0.1933	0.5795
n-Butylbenzene	2.74	2.99	3.01	2.43	3.09	2.74	2.92	2.53		2.8063	0.2377	0.7125
Napnthalene	2.11	2.33	2.69	2.25	2.47	2.32	2.59	2.5		2.4087	0.1888	0.566

MDL run @10 ppb & 50ppb Analyzed on 02/12/98

Compound	fn7008.d	fn7009.d	fn7010.d	fn7011.d	fn7012.d	fn7013.d	fn7014.d	fn7015.d	fn7016.d		AVG	STDDEV	MDL
2-Butanone	7.72	7.75	7.26	7.56	7.34	7.3	6.84	5.66	7.89		7.2578	0.6785	1.965
2-Chloroethylvinylether	7.48	7.39	6.58	7.61	7.19	6.62	6.76	6.04	7.66		7.0367	0.5606	1.6235
4-Methyl-2-Pentanone	7.02	7.4	6.46	7.32	6.93	6.26	6.38	5.67	7.32		6.7511	0.5921	1.7149
2-Hexanone	4.78	5.06	4.64	5.36	5.94	5.67	5.5	4.21	5.39		5.1722	0.5481	1.5872
t-Butyl Alcohol	41.15	40.41	37.07	41.03	41	37.01	36.62	31.93	41.45		38.63	3.2178	9.3189
Acrolein	44.67	40.54	37.5	40.45	47.61	46.65	43.75	32.17	42.14		41.72	4.796	13.8892
Acrylonitrile	36.89	37.6	34.49	36.31	36.12	32.85	35.69	30.82	37.78		35.3944	2.3039	6.672

Hampton-Clarke, Inc.
veritech laboratories

175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

ECOSYSTEMS STRATEGIES

Format: NYDOH-R

Project: Middletown
PO Number: LM97145-40

Samples submitted on: 9/24/98

AA72657
AA72658
AA72659
AA72660
AA72661
AA72662

Date: 10/15/98
HCl Project: 09242002

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Veritech Sample Key

15-Oct-98

Lab#	SampleID
AA72657	C1-B-11
AA72658	C2-N-8
AA72659	C2-B-9
AA72660	C2-S-8
AA72661	C1-SE-5
AA72662	C1-NE-5

Veritech, 175 Route 46 West, Fairfield, NJ 07004
A Division of HAMPTON-CLARKE, Inc. NJDEPE #14622

CHAIN OF CUSTODY RECORD

PHONE (973) 244-9770
FAX (973) 244-9787

CUSTOMER INFORMATION

CUSTOMER: Ecosystems Strategies
ADDRESS: 60 Worrall Avenue - Pkg
TELEPHONE: 914-452-1658
PROJECT:
PROJECT MANAGER: Zywia Wojnar
PROJECT LOCATION: Middletown, NY
STATE: NY
PO NUMBER: LM97145.40

REPORT INFORMATION

SEND REPORT TO: Zywia Wojnar
Ecosystems Strategies, Inc.
60 Worrall Ave
Poughkeepsie, NY 12603
SEND INVOICE TO: Johanna Kurtz
Ecosystems Strategies, Inc.

PROJECT INFORMATION

TURNAROUND (CONFIRM RUSH TAT'S WITH LAB) 24 hr - by 10 AM 9/25/98
STANDARD ____ RUSH ✓
DELIVERABLES (PLEASE CIRCLE):
STANDARD ISRA BUST
WASTE REGULATORY
OTHER (Specify) ____

ANALYTICAL REQUESTS

LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE (C)	SAMPLE TYPE: GRAB (G)	SAMPLE MATRIX	NO. OF BOTTLES: H2SO4	HNO3	HCL	NaOH	ZnAc + NaOH	Ascorbic	NONE	OTHER	ANALYSIS
AA72657	C1-B-11'	9/24/98	1315		✓	soil							2		8010
72658	C2-N-8'	9/24/98	1305		✓								1		
72659	C2-B-9'	9/24/98	1310		✓								1		
72660	C2-S-8'	9/24/98	1325		✓								1		
72661	C1 SE-5'	9/24/98	1100		✓								1		
72662	C1 NE-5'	9/24/98	1105		✓								1		
	C3-N-	9/24/98			✓										
	C3-W-	9/24/98			✓										
	C3-B-	9/24/98			✓										
	C3-S-	9/24/98			✓										

Zywia W

SAMPLER CERTIFIES THAT EACH SAMPLE RECEIVED PROPER FIELD PRESERVATION (IF REQUIRED) none (INITIALS) ZW

SAMPLE HAZARDS: ☐ FLAMMABLE ☐ SKIN IRRITANT ☐ NON-HAZARD ☐ UNKNOWN ☐ NOXIOUS FUMES pot. hazardous

SPECIAL INSTRUCTIONS: Zywia Wojnar

TEMPERATURE UPON RECEIPT:

		DATE/TIME			DATE/TIME
Relinquished by: Zywia Wojnar	Received by: D Reesler	9/24/98	1710	Received by: D Reesler	9/24/98 1710
Agent of: Ecosystems Strategies, Inc.	Agent of: + Press				
Relinquished by: D. Reesler	Received by: Teddy Magdaleno	9/24	1840	Received by: Teddy Magdaleno	9/24/98 1840
Agent of: + Press	Agent of: Veritech				

CONDITION UPON RECEIPT FORM

Veritech

Date Received: 9/24 Filed By: T. M.

Client: Eco Systems Project/Account:

YES	NO		INITIAL CONDITIONS
✓		[1]	Is there a corresponding Chain of Custody included with the samples?
✓		[2]	Are the samples in a container such as a cooler or ice chest?
	✓	[3]	Are the custody seals intact? IF NO, please circle one of the following: (missing) broken N.A.
2.6 °C		[4]	Please specify the temperature inside the container.

YES	NO		SAMPLE INFORMATION
✓		[5]	Are the samples properly refrigerated (where required)?
✓		[6]	Are the samples within holding times for the parameters listed on the COC? If NO, list parameters and associated samples:
✓		[7]	Are all of the sample bottles intact? If NO, specify sample numbers below: broken: leaking:
✓		[8]	Are all of the sample labels or numbers legible? If NO, specify:
✓		[9]	Do the contents of the container match the COC? If NO, specify:
✓		[10]	Is there enough sample sent for the analyses listed on the COC? If NO, specify:
		[11]	Are the samples preserved correctly (see Preservation Form for actual pH readings)?
		[12]	Are all soil VO(NJ) samples properly preserved in methanol with the correct soil weights (8g - 12g) and accompanied by dry soil?

OTHER

[13] Specify:

NO.	ACTION	CORRECTIVE ACTIONS

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INTERNAL CHAIN OF CUSTODY RECORD FOR GC/MS

		REMOVED FROM:			RETURNED TO*:			
TEST	SAMPLE NO:	RFRG	DATE	TIME	RFRG	DATE	TIME	SIGNATURE
VO	72092, 093, 463, 085, 083	3	9/24/98	1000	3	9/24/98	1230	GC
↓	AA72091, 089, 080, 081, 462	↓	↓	↓	↓	↓	↓	↓
	AA72254, 258, 405, 255, 403							
	AA72257, 253, 404, 252, 256,							
	AA72401, 402, 400, 71776,							
	AA72660, 658, 659, 657, 661,							
↓	AA72662	↓	↓	↓	↓	↓	↓	↓
VO	AA72077, 075, 516, 517, 519,	3	9/24/98	1300				GC
↓	AA72520, 515, 518	↓	↓	↓				↓
VO	AA72692, 690, 693, 658, 662	3	9/25/98	1400	3	9/25/98	1500	GC
↓	AA72659, 660, 657, 661, 691, 71888	↓	↓	↓	↓	↓	↓	↓
VO	EFI-1447, 71531, 72241,	3	9/25/98	1200				GC
↓	AA72242, 243, 244, 250,	↓	↓	↓				↓
	AA72204, 205, 377, 580, 581							
↓	AA72615, 626, 627, 688, 689	↓	↓	↓				↓
VO	AA71879, 72201, 202, 632,	3	9/25/98	1100	3	9/25/98	1300	GC
↓	AA72633, 634, 680, 203, 488,	↓	↓	↓	↓	↓	↓	↓
↓	AA72631	↓	↓	↓	↓	↓	↓	↓
VO	AA72619, 620, 621, 622, 623, 624	3	9/26/98	1400				GC
↓	AA72625, 682, 617, 618, 684,	↓	↓	↓				↓
	AA72685, 686, 687, 385, 579,							
↓	AA72681, 683, 614, 616, 393	↓	↓	↓				↓
VO	AA71777, 778, 779, 780,	3	9/28/98	1100				GC
↓	AA72245, 377, 204, 205, 076,	↓	↓	↓				↓
	AA72753, 759, 760, 761, ~~774~~, GC							
	~~AA72376~~ GC AA72730, 732							
↓	AA72731, 733, 734	↓	↓	↓				↓
VO	AA72247, 413, 249, 203, 406, 631	3	9/28/98	1430				GC
↓	AA72378, 503, 505, 506, 507, 508	↓	↓	↓				↓
	AA72374, 376, 502, 484, 483,							
	AA72482, 485, 71776, 72461,							
↓	AA72082, 090, 248, 246, 483, 484	↓	↓	↓				↓
VO	AA72506, 082, 090, 247, 246,	3	9/29/98	1130	3	9/29/98	1315	GC
↓	AA72248, 461, 507, 631, 613,	↓	↓	↓	↓	↓	↓	↓
	AA72607, 608, 609, 610, 611,							
	AA72612, 707, 708, 709, 705,							
↓	AA72706, 704, 238	↓	↓	↓	↓	↓	↓	↓
VO	AA72577, 705, 706, 704	3	9/30/98	1200				GC

*Aqueous volatile samples are not logged back into the refrigerator after test.

GC
10/8/98

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INTERNAL CHAIN OF CUSTODY RECORD - REFRIGERATOR #12

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Client ID: Ecosystems

Location: B1

COMMENTS

7-2oz soil

		REMOVED:				RETURNED:			
TEST	SAMPLE No.	DATE	TIME	SIGNATURE	ALTERNATE	DATE	TIME	SIGNATURE	ALTERNATE
% solid	72657-62	9/25	0930	JL		9/25	1200	JL	

FOR LOGIN BATCH

AA 72657-62

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Laboratory Chronicle

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Lab Number	Sample Description
AA72657	C1-B-11

% Solids SM2540G	Preparation			Analysis		
	Date	By	Method	Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation			Analysis		
	Date	By	Method	Date	By	Method
Bromoform				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
1,1-Dichloroethene				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260
Vinyl Chloride				9/25/98	GVC	EPA 8260
Chloroethane				9/25/98	GVC	EPA 8260
Methylene Chloride				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
Trichlorofluoromethane				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
1,1-Dichloroethane				9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
Chloroform				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260

Lab Number	Sample Description
AA72658	C2-N-8

% Solids SM2540G	Preparation			Analysis		
	Date	By	Method	Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation			Analysis		
	Date	By	Method	Date	By	Method
Trichloroethene				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
Bromoform				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260

Carbon Tetrachloride	9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane	9/25/98	GVC	EPA 8260
1,2-Dichloroethane	9/25/98	GVC	EPA 8260
Chloroform	9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	9/25/98	GVC	EPA 8260
1,1-Dichloroethane	9/25/98	GVC	EPA 8260
1,1-Dichloroethene	9/25/98	GVC	EPA 8260
Trichlorofluoromethane	9/25/98	GVC	EPA 8260
Methylene Chloride	9/25/98	GVC	EPA 8260
Chloroethane	9/25/98	GVC	EPA 8260
Vinyl Chloride	9/25/98	GVC	EPA 8260
1,2-Dichloropropane	9/25/98	GVC	EPA 8260

Lab Number AA72659 **Sample Description** C2-B-9

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
Bromoform				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,1-Dichloroethene				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260
Chloroform				9/25/98	GVC	EPA 8260
1,1-Dichloroethane				9/25/98	GVC	EPA 8260
Trichlorofluoromethane				9/25/98	GVC	EPA 8260
Methylene Chloride				9/25/98	GVC	EPA 8260
Chloroethane				9/25/98	GVC	EPA 8260
Vinyl Chloride				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260

Lab Number AA72660 **Sample Description** C2-S-8

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Tetrachloroethene				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260

1,2-Dichloropropane	9/25/98	GVC	EPA 8260
2-Chloroethylvinylether	9/25/98	GVC	EPA 8260
Bromoform	9/25/98	GVC	EPA 8260
Chlorobenzene	9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene	9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene	9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene	9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene	9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene	9/25/98	GVC	EPA 8260
Chloroethane	9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane	9/25/98	GVC	EPA 8260
Bromodichloromethane	9/25/98	GVC	EPA 8260
Chloromethane	9/25/98	GVC	EPA 8260
Vinyl Chloride	9/25/98	GVC	EPA 8260
Methylene Chloride	9/25/98	GVC	EPA 8260
Trichlorofluoromethane	9/25/98	GVC	EPA 8260
1,1-Dichloroethene	9/25/98	GVC	EPA 8260
1,1-Dichloroethane	9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	9/25/98	GVC	EPA 8260
Chloroform	9/25/98	GVC	EPA 8260
1,2-Dichloroethane	9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane	9/25/98	GVC	EPA 8260
Carbon Tetrachloride	9/25/98	GVC	EPA 8260
Bromomethane	9/25/98	GVC	EPA 8260

Lab Number AA72661 — **Sample Description** C1-SE-5

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
Bromoform				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
Chloroethane				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
Vinyl Chloride				9/25/98	GVC	EPA 8260
Methylene Chloride				9/25/98	GVC	EPA 8260
Trichlorofluoromethane				9/25/98	GVC	EPA 8260
1,1-Dichloroethene				9/25/98	GVC	EPA 8260
1,1-Dichloroethane				9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
Chloroform				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260

Lab Number AA72662 — **Sample Description** C1-NE-5

Laboratory Chronicle

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% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
Trichloroethene				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Bromoform				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,1-Dichloroethene				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260
Chloroform				9/25/98	GVC	EPA 8260
1,1-Dichloroethane				9/25/98	GVC	EPA 8260
Trichlorofluoromethane				9/25/98	GVC	EPA 8260
Methylene Chloride				9/25/98	GVC	EPA 8260
Chloroethane				9/25/98	GVC	EPA 8260
Vinyl Chloride				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/25/98	GVC	EPA 8260

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GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

METHOD 8260

	NO	YES
1. GC/MS Tune Specifications a. BFB passed	___	_X_
2. GC/MS Tuning Frequency - performed every 12 hours	___	_X_
3. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hours before sample analysis.	___	_X_
4. GC/MS Calibration Requirements a. Calibration Check Compounds b. System Performance Check Compounds	___ ___	_X_ _X_
5. Blank Contamination - List compounds for each fraction a. VOA Fraction (see form1.)_____		
6. Surrogate Recoveries Meet Criteria (If not met; list those compounds and their recoveries which fall outside the acceptable range) a. VOA Fraction See note below (if applicable)._____	___	_X_
7. Extraction Holding Time Met	___	_X_
Comments:		
8. Analysis Holding Time Met	___	_X_
Comments:		

Additional Comments:

Organics Director _____ Date: 10/8/98_

METHOD REFERENCES

Test Methods for Evaluating Solid Waste, SW-846, **Third Edition**
Chloride: Method 9253.
Cyanide: Method 9010B/9014.
Dioxins/Furans: Method 8290.
Flashpoint: Method 1010.
Fingerprint (GC): Methods (3510C or 3550B)/8015 modified.
Hexavalent Chromium: Second and Third Editions, Methods 3060 and 7196A.
Ignitability: Method 1030.
Metals: Methods (3005A or 3050B)/6010B, (7470A or 7471A) (Hg).
PCB's: Methods (3510C or 3550B)/8082.
PCB's (Oils): Methods 3580A/8082.
Pesticides: Methods (3510C or 3550B)/8081A.
pH (Soils): Method 9045C.
Phenolics (Soils): Method 9065.
Reactive Cyanide/Sulfide: Chapter Seven, Section 7.3, Reactivity.
Semivolatile Organics: Methods (3510C or 3550B)/8270C.
Sulfide: Method 9030B/9034.
TCLP: Extraction: Method 1311.
TCLP Volatile Organics: Method 8260B.
TCLP Semivolatile Organics: Methods 3510C/8270C.
TCLP Pesticides: Methods 3510C/8081A.
TCLP Herbicides: Method 8151A.
TCLP Metals: Methods 3005A/6010B and 7470A.
TPH: Method 9071A (extraction only)/418.1.
TPH Extractables: Methods (3510C or 3550B)/8015 modified.
Volatile Organics: Method 8260B.

Federal Register, 40 CFR Part 136
Volatile Organics: Method 624.
Semivolatile Organics: Method 625.
Pesticides/PCB's: Method 608.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039
Chlorinated Herbicides: Method 515.1/515.2.
Volatile Organics: Method 524.2, Revision 3, 1989.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
Cyanide (Free):, Method 4500-CN-I.
Hexavalent Chromium: Method 3500-Cr D.
Salinity: Method 2520-B.
Solids, Total, Fixed, & Volatile: Method 2540-G.

Methods for the Determination of Metals in Environmental Samples, EPA/600/4-91/010, June 1991
ICP Metals: Method 200.7, Revision 3.3.
GFAA Metals: Method 200.9.

Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983
Cyanide & Amenable Cyanide: Method 335.2/335.1.
Phenols: Method 420.1.
Mercury: Method 245.1.
pH Hydrogen Ion: Method 150.1/150.2.
Temperature, Deg. C: 170.1.
TPH (Soils & Waters): Method 418.1 (analysis 418.1 for Soils).
Specific Conductance: Method 120.1.
Residue, Filterable (TDS): Method 160.1.
Residue, Non-Filterable (TSS): Method 160.2.
Residue, Total: Method 160.3.
Residue, Volatile: Method 160.4.
Chloride: Method 325.3.
Sulfide (Waters): Method 376.1.
Oil & Grease (Total Recoverable): Method 413.1.
Oil & Grease: Method 1664.
Acidity (as CaCO3): Method 305.1.
Alkalinity (as CaCO3): Method 310.1.

American Society for Testing & Materials (ASTM), June 1991
TOX (Waters & Soils): Method D2361-91.

Hach Chemical Company Handbook
Chemical Oxygen Demand (Waters): Method 8000.

CT #: PH-0671
MA #: NJ386
NJ #: 14622
NY #: 11408
PA #: 68-463

Report Of Analysis
veritech laboratories

To: ECOSYSTEMS STRATEGIES
60 WORRALL AVE.
POUGHKEEPSIE NY 12603

Attention: BRAD FISHER
Project: Middletown

Date Collected: 9/23/98
Date Submitted: 9/24/98
Date Reported: 10/15/98

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72657	C1-B-11					
		% Solids SM2540G				
			% Solids	Percent		87
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	14000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	14000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	14000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	14000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	14000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	14000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	14000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	14000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	14000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	14000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	14000	ND
			Bromodichloromethane	ug/Kg(PPB)	14000	ND
			Bromoform	ug/Kg(PPB)	14000	ND
			Bromomethane	ug/Kg(PPB)	14000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	14000	ND
			Chlorobenzene	ug/Kg(PPB)	14000	ND
			Chloroethane	ug/Kg(PPB)	14000	ND
			Chloroform	ug/Kg(PPB)	14000	ND
			Chloromethane	ug/Kg(PPB)	14000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	14000	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	14000	ND
			Dibromochloromethane	ug/Kg(PPB)	14000	ND
			Methylene Chloride	ug/Kg(PPB)	14000	ND
			Tetrachloroethene	ug/Kg(PPB)	14000	540000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	14000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	14000	ND
			Trichloroethene	ug/Kg(PPB)	14000	ND
			Trichlorofluoromethane	ug/Kg(PPB)	14000	ND
			Vinyl Chloride	ug/Kg(PPB)	14000	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72658	C2-N-8					
		% Solids SM2540G				
			% Solids	Percent		88
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	710	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	710	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	710	ND
			1,1-Dichloroethane	ug/Kg(PPB)	710	ND
			1,1-Dichloroethene	ug/Kg(PPB)	710	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	710	ND
			1,2-Dichloroethane	ug/Kg(PPB)	710	ND
			1,2-Dichloropropane	ug/Kg(PPB)	710	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	710	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	710	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	710	ND
			Bromodichloromethane	ug/Kg(PPB)	710	ND
			Bromoform	ug/Kg(PPB)	710	ND
			Bromomethane	ug/Kg(PPB)	710	ND
			Carbon Tetrachloride	ug/Kg(PPB)	710	ND
			Chlorobenzene	ug/Kg(PPB)	710	ND
			Chloroethane	ug/Kg(PPB)	710	ND
			Chloroform	ug/Kg(PPB)	710	ND
			Chloromethane	ug/Kg(PPB)	710	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	710	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	710	ND
			Dibromochloromethane	ug/Kg(PPB)	710	ND
			Methylene Chloride	ug/Kg(PPB)	710	ND
			Tetrachloroethene	ug/Kg(PPB)	710	880
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	710	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	710	ND
			Trichloroethene	ug/Kg(PPB)	710	ND
			Trichlorofluoromethane	ug/Kg(PPB)	710	ND
			Vinyl Chloride	ug/Kg(PPB)	710	ND
AA72659	C2-B-9					
		% Solids SM2540G				
			% Solids	Percent		85
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	7400	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	7400	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	7400	ND
			1,1-Dichloroethane	ug/Kg(PPB)	7400	ND
			1,1-Dichloroethene	ug/Kg(PPB)	7400	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	7400	ND
			1,2-Dichloroethane	ug/Kg(PPB)	7400	ND
			1,2-Dichloropropane	ug/Kg(PPB)	7400	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	7400	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	7400	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	7400	ND
			Bromodichloromethane	ug/Kg(PPB)	7400	ND
			Bromoform	ug/Kg(PPB)	7400	ND
			Bromomethane	ug/Kg(PPB)	7400	ND
			Carbon Tetrachloride	ug/Kg(PPB)	7400	ND
			Chlorobenzene	ug/Kg(PPB)	7400	ND
			Chloroethane	ug/Kg(PPB)	7400	ND
			Chloroform	ug/Kg(PPB)	7400	ND
			Chloromethane	ug/Kg(PPB)	7400	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	7400	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	7400	ND
			Dibromochloromethane	ug/Kg(PPB)	7400	ND
			Methylene Chloride	ug/Kg(PPB)	7400	ND
			Tetrachloroethene	ug/Kg(PPB)	7400	160000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	7400	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	7400	ND
			Trichloroethene	ug/Kg(PPB)	7400	ND
			Trichlorofluoromethane	ug/Kg(PPB)	7400	ND
			Vinyl Chloride	ug/Kg(PPB)	7400	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72660	C2-S-8					
		% Solids SM2540G				
			% Solids	Percent		87
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	7200	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	7200	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	7200	ND
			1,1-Dichloroethane	ug/Kg(PPB)	7200	ND
			1,1-Dichloroethene	ug/Kg(PPB)	7200	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	7200	ND
			1,2-Dichloroethane	ug/Kg(PPB)	7200	ND
			1,2-Dichloropropane	ug/Kg(PPB)	7200	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	7200	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	7200	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	7200	ND
			Bromodichloromethane	ug/Kg(PPB)	7200	ND
			Bromoform	ug/Kg(PPB)	7200	ND
			Bromomethane	ug/Kg(PPB)	7200	ND
			Carbon Tetrachloride	ug/Kg(PPB)	7200	ND
			Chlorobenzene	ug/Kg(PPB)	7200	ND
			Chloroethane	ug/Kg(PPB)	7200	ND
			Chloroform	ug/Kg(PPB)	7200	ND
			Chloromethane	ug/Kg(PPB)	7200	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	7200	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	7200	ND
			Dibromochloromethane	ug/Kg(PPB)	7200	ND
			Methylene Chloride	ug/Kg(PPB)	7200	ND
			Tetrachloroethene	ug/Kg(PPB)	7200	86000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	7200	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	7200	ND
			Trichloroethene	ug/Kg(PPB)	7200	ND
			Trichlorofluoromethane	ug/Kg(PPB)	7200	ND
			Vinyl Chloride	ug/Kg(PPB)	7200	ND
AA72661	C1-SE-5					
		% Solids SM2540G				
			% Solids	Percent		83
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	30000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	30000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	30000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	30000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	30000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	30000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	30000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	30000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	30000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	30000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	30000	ND
			Bromodichloromethane	ug/Kg(PPB)	30000	ND
			Bromoform	ug/Kg(PPB)	30000	ND
			Bromomethane	ug/Kg(PPB)	30000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	30000	ND
			Chlorobenzene	ug/Kg(PPB)	30000	ND
			Chloroethane	ug/Kg(PPB)	30000	ND
			Chloroform	ug/Kg(PPB)	30000	ND
			Chloromethane	ug/Kg(PPB)	30000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	30000	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	30000	ND
			Dibromochloromethane	ug/Kg(PPB)	30000	ND
			Methylene Chloride	ug/Kg(PPB)	30000	ND
			Tetrachloroethene	ug/Kg(PPB)	30000	2500000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	30000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	30000	ND
			Trichloroethene	ug/Kg(PPB)	30000	ND
			Trichlorofluoromethane	ug/Kg(PPB)	30000	ND
			Vinyl Chloride	ug/Kg(PPB)	30000	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72662	C1-NE-5					
		% Solids SM2540G				
			% Solids	Percent		82
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	3000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	3000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	3000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	3000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	3000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	3000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	3000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	3000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	3000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	3000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	3000	ND
			Bromodichloromethane	ug/Kg(PPB)	3000	ND
			Bromoform	ug/Kg(PPB)	3000	ND
			Bromomethane	ug/Kg(PPB)	3000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	3000	ND
			Chlorobenzene	ug/Kg(PPB)	3000	ND
			Chloroethane	ug/Kg(PPB)	3000	ND
			Chloroform	ug/Kg(PPB)	3000	ND
			Chloromethane	ug/Kg(PPB)	3000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	3000	3400
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	3000	ND
			Dibromochloromethane	ug/Kg(PPB)	3000	ND
			Methylene Chloride	ug/Kg(PPB)	3000	ND
			Tetrachloroethene	ug/Kg(PPB)	3000	93000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	3000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	3000	ND
			Trichloroethene	ug/Kg(PPB)	3000	1200J
			Trichlorofluoromethane	ug/Kg(PPB)	3000	ND
			Vinyl Chloride	ug/Kg(PPB)	3000	ND

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Jetter - Quality Assurance Director

Or

Stanley Gilewicz - Laboratory Director

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK(ME
Matrix: Soil
Client Id:
Initial Volume: 5ml
Data File: fl4934
Final Volume: NA
Date Analyzed: 25 Sep 1998 16:31
Dilution Factor: 125
Date Received/Extracted:
Percent Solids: 100
Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	630	U
79345	1,1,2,2-Tetrachloroethane	630	U
79005	1,1,2-Trichloroethane	630	U
75343	1,1-Dichloroethane	630	U
75354	1,1-Dichloroethene	630	U
95501	1,2-Dichlorobenzene	630	U
107062	1,2-Dichloroethane	630	U
78875	1,2-Dichloropropane	630	U
541731	1,3-Dichlorobenzene	630	U
106467	1,4-Dichlorobenzene	630	U
110758	2-Chloroethylvinylether	630	U
75274	Bromodichloromethane	630	U
75252	Bromoform	630	U
74839	Bromomethane	630	U
56235	Carbon Tetrachloride	630	U
108907	Chlorobenzene	630	U
75003	Chloroethane	630	U
67663	Chloroform	630	U
74873	Chloromethane	630	U
156592	Cis-1,2-Dichloroethene	630	U
10061015	Cis-1,3-Dichloropropene	630	U
124481	Dibromochloromethane	630	U
75092	Methylene Chloride	630	U
127184	Tetrachloroethene	630	U
156605	Trans-1,2-Dichloroethene	630	U
10061026	Trans-1,3-Dichloropropene	630	U
79016	Trichloroethene	630	U
75694	Trichlorofluoromethane	630	U
75014	Vinyl Chloride	630	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105930.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4934.D Vial: 4
Acq On : 25 Sep 1998 16:31 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_3
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 13:28 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 15:42:32 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.50	128	72618	30.00	ug/l	-0.01
25) 1,4-Difluorobenzene	7.89	114	441222	30.00	ug/l	-0.01
44) Chlorobenzene-d5	11.64	117	531683	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	38777	33.74	ug/l	0.00
Spiked Amount 30.000			Recovery =	112.47%		
42) Toluene-d8	9.86	98	602820	29.17	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.23%		
53) Bromofluorobenzene	12.93	176	124448	33.58	ug/l	0.00
Spiked Amount 30.000			Recovery =	111.93%		

Target Compounds Qvalue

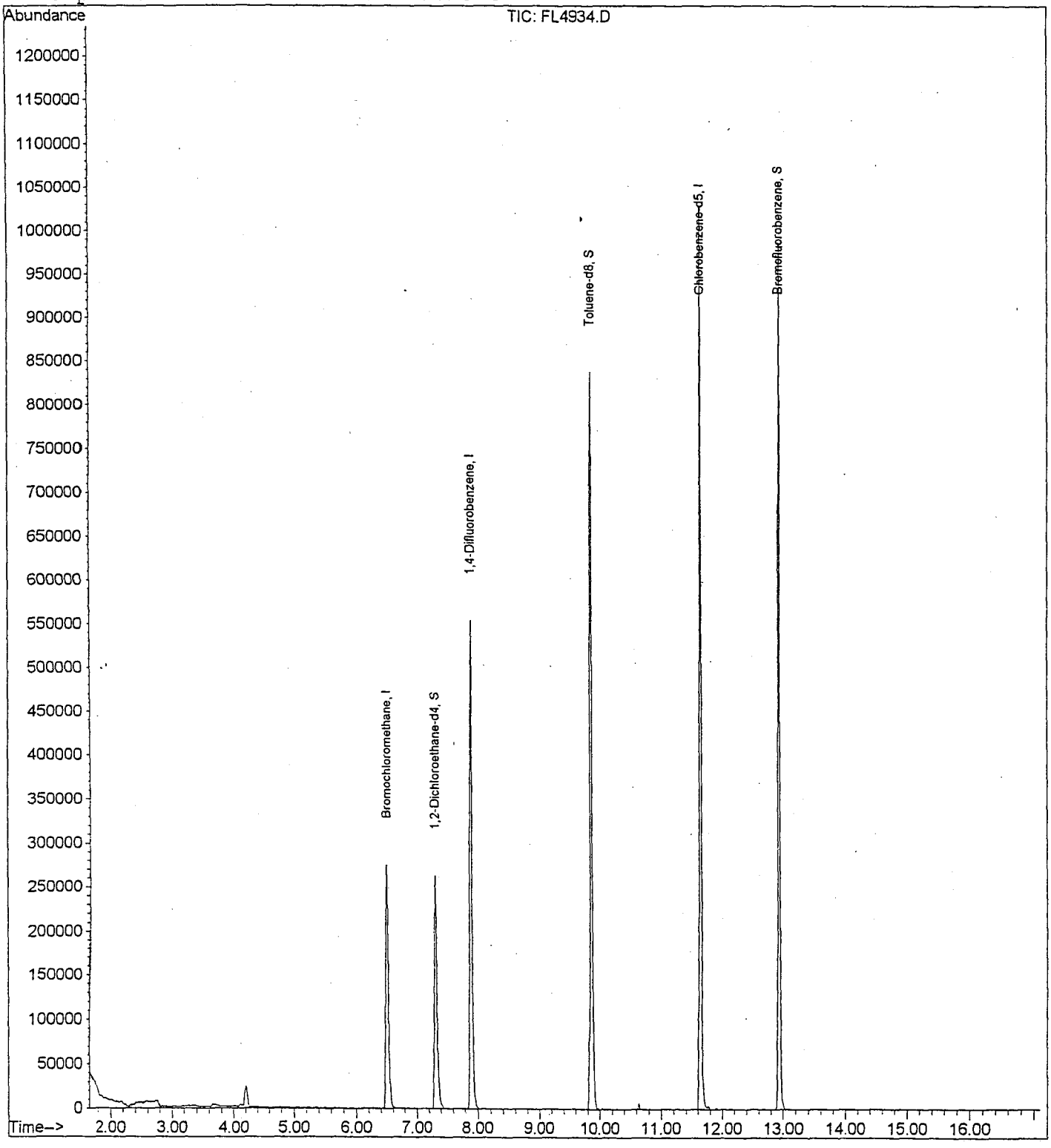
10-8-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4934.D Vial: 4
Acq On : 25 Sep 1998 16:31 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_3
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 13:28 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72657 — *Matrix:* Soil

Client Id: C1-B-11 — *Initial Volume:* 5ml

Data File: fl4942 — *Final Volume:* NA

Date Analyzed: 25 Sep 1998 19:58 — *Dilution Factor:* 2500

Date Received/Extracted: 9/24/98-NA — *Percent Solids:* 87

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	14000	U
79345	1,1,2,2-Tetrachloroethane	14000	U
79005	1,1,2-Trichloroethane	14000	U
75343	1,1-Dichloroethane	14000	U
75354	1,1-Dichloroethene	14000	U
95501	1,2-Dichlorobenzene	14000	U
107062	1,2-Dichloroethane	14000	U
78875	1,2-Dichloropropane	14000	U
541731	1,3-Dichlorobenzene	14000	U
106467	1,4-Dichlorobenzene	14000	U
110758	2-Chloroethylvinylether	14000	U
75274	Bromodichloromethane	14000	U
75252	Bromoform	14000	U
74839	Bromomethane	14000	U
56235	Carbon Tetrachloride	14000	U
108907	Chlorobenzene	14000	U
75003	Chloroethane	14000	U
67663	Chloroform	14000	U
74873	Chloromethane	14000	U
156592	Cis-1,2-Dichloroethene	14000	U
10061015	Cis-1,3-Dichloropropene	14000	U
124481	Dibromochloromethane	14000	U
75092	Methylene Chloride	14000	U
127184	Tetrachloroethene	14000	540000
156605	Trans-1,2-Dichloroethene	14000	U
10061026	Trans-1,3-Dichloropropene	14000	U
79016	Trichloroethene	14000	U
75694	Trichlorofluoromethane	14000	U
75014	Vinyl Chloride	14000	U

Total Target Concentration 540000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105930.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4942.D Vial: 12
Acq On : 25 Sep 1998 19:58 Operator: GVC
Sample : AA72657 Inst : GCMS_3
Misc : M,4g/10mL--40uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.51	128	117390	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.90	114	692777	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.64	117	659486	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	53117	28.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.30%			
42) Toluene-d8	9.86	98	931691	28.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.70%			
53) Bromofluorobenzene	12.93	176	130312	28.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.50%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	871487	187.09	ug/l	98
55) m&p-Xylenes	11.89	106	12091	1.17	ug/l	68

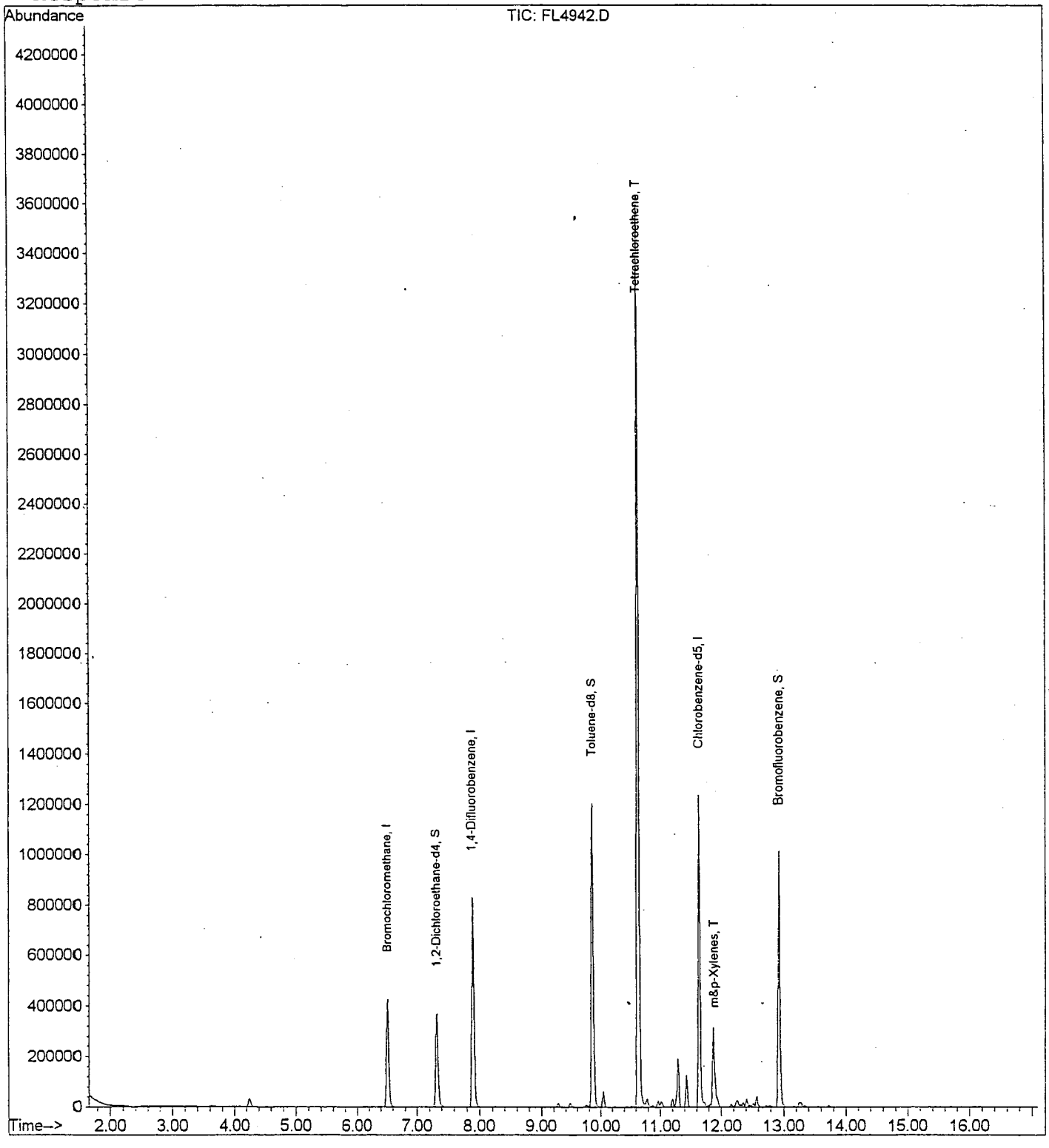
10-2-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4942.D Vial: 12
Acq On : 25 Sep 1998 19:58 Operator: GVC
Sample : AA72657 Inst : GCMS_3
Misc : M,4g/10mL--40uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



Quantitation Repo

ATA\GCMS_3\09-25-98\FL4 3

1998 18:15

L--800uL/40mL
s: RTEINT.P
13:26 1998

MSDATA\METHODS\MG0924.M (F
S_3
ep 25 16:03:42 1998
al Calibration
NAP

	R.T.	QIon	
e	6.50	128	
ne	7.88	114	
	11.64	117	
ounds			
e-d4	7.31	102	
0.000			
	9.86	98	
.000			
ne	12.93	176	
.000			
e	10.63	164	

range (m) = manual int
Wed Sep 30 10:53:57 1

10-2-98

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72658 — *Matrix:* S
Client Id: C2-N-8 — *Initial Volume:* 5
Data File: fl4938 — *Final Volume:* 1
Date Analyzed: 25 Sep 1998 18:15 — *Dilution Factor:* 1
Date Received/Extracted: 9/24/98-NA — *Percent Solids:* 8
Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um

CAS #	Compound	PQL/MDL	Concentr
71556	1,1,1-Trichloroethane	710	
79345	1,1,2,2-Tetrachloroethane	710	
79005	1,1,2-Trichloroethane	710	
75343	1,1-Dichloroethane	710	
75354	1,1-Dichloroethene	710	
95501	1,2-Dichlorobenzene	710	
107062	1,2-Dichloroethane	710	
78875	1,2-Dichloropropane	710	
541731	1,3-Dichlorobenzene	710	
106467	1,4-Dichlorobenzene	710	
110758	2-Chloroethylvinylether	710	
75274	Bromodichloromethane	710	
75252	Bromoform	710	
74839	Bromomethane	710	
56235	Carbon Tetrachloride	710	
108907	Chlorobenzene	710	
75003	Chloroethane	710	
67663	Chloroform	710	
74873	Chloromethane	710	
156592	Cis-1,2-Dichloroethene	710	
10061015	Cis-1,3-Dichloropropene	710	
124481	Dibromochloromethane	710	
75092	Methylene Chloride	710	
127184	Tetrachloroethene	710	
156605	Trans-1,2-Dichloroethene	710	
10061026	Trans-1,3-Dichloropropene	710	
79016	Trichloroethene	710	
75694	Trichlorofluoromethane	710	
75014	Vinyl Chloride	710	

Total Target Concentration 880

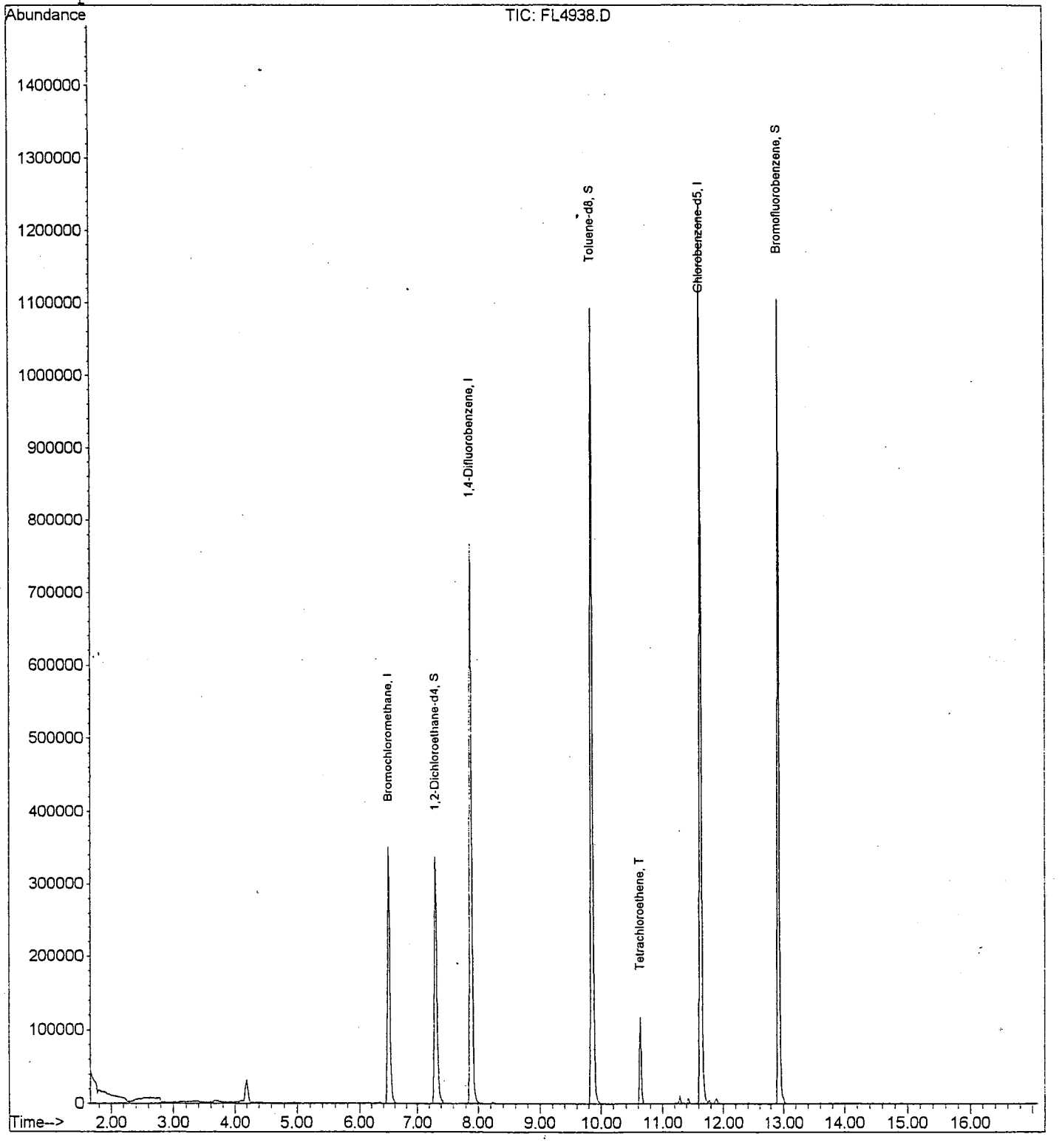
U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument

Control File h:\import\105930.txt

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4938.D Vial: 8
Acq On : 25 Sep 1998 18:15 Operator: GVC
Sample : AA72658 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000024

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72659 | *Matrix:* Soil

Client Id: C2-B-9 | *Initial Volume:* 5ml

Data File: fl4940 | *Final Volume:* NA

Date Analyzed: 25 Sep 1998 19:07 | *Dilution Factor:* 1250

Date Received/Extracted: 9/24/98-NA | *Percent Solids:* 85

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7400	U
79345	1,1,2,2-Tetrachloroethane	7400	U
79005	1,1,2-Trichloroethane	7400	U
75343	1,1-Dichloroethane	7400	U
75354	1,1-Dichloroethene	7400	U
95501	1,2-Dichlorobenzene	7400	U
107062	1,2-Dichloroethane	7400	U
78875	1,2-Dichloropropane	7400	U
541731	1,3-Dichlorobenzene	7400	U
106467	1,4-Dichlorobenzene	7400	U
110758	2-Chloroethylvinylether	7400	U
75274	Bromodichloromethane	7400	U
75252	Bromoform	7400	U
74839	Bromomethane	7400	U
56235	Carbon Tetrachloride	7400	U
108907	Chlorobenzene	7400	U
75003	Chloroethane	7400	U
67663	Chloroform	7400	U
74873	Chloromethane	7400	U
156592	Cis-1,2-Dichloroethene	7400	U
10061015	Cis-1,3-Dichloropropene	7400	U
124481	Dibromochloromethane	7400	U
75092	Methylene Chloride	7400	U
127184	Tetrachloroethene	7400	160000
156605	Trans-1,2-Dichloroethene	7400	U
10061026	Trans-1,3-Dichloropropene	7400	U
79016	Trichloroethene	7400	U
75694	Trichlorofluoromethane	7400	U
75014	Vinyl Chloride	7400	U

Total Target Concentration 160000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105930.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4940.D Vial: 10
Acq On : 25 Sep 1998 19:07 Operator: GVC
Sample : AA72659 Inst : GCMS_3
Misc : M,4g/10mL--80uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.51	128	111995	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.90	114	659099	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.64	117	603393	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	49898	28.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.83%			
42) Toluene-d8	9.86	98	843641	27.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.10%			
53) Bromofluorobenzene	12.93	176	108976	25.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.37%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	462169	108.44	ug/l	98

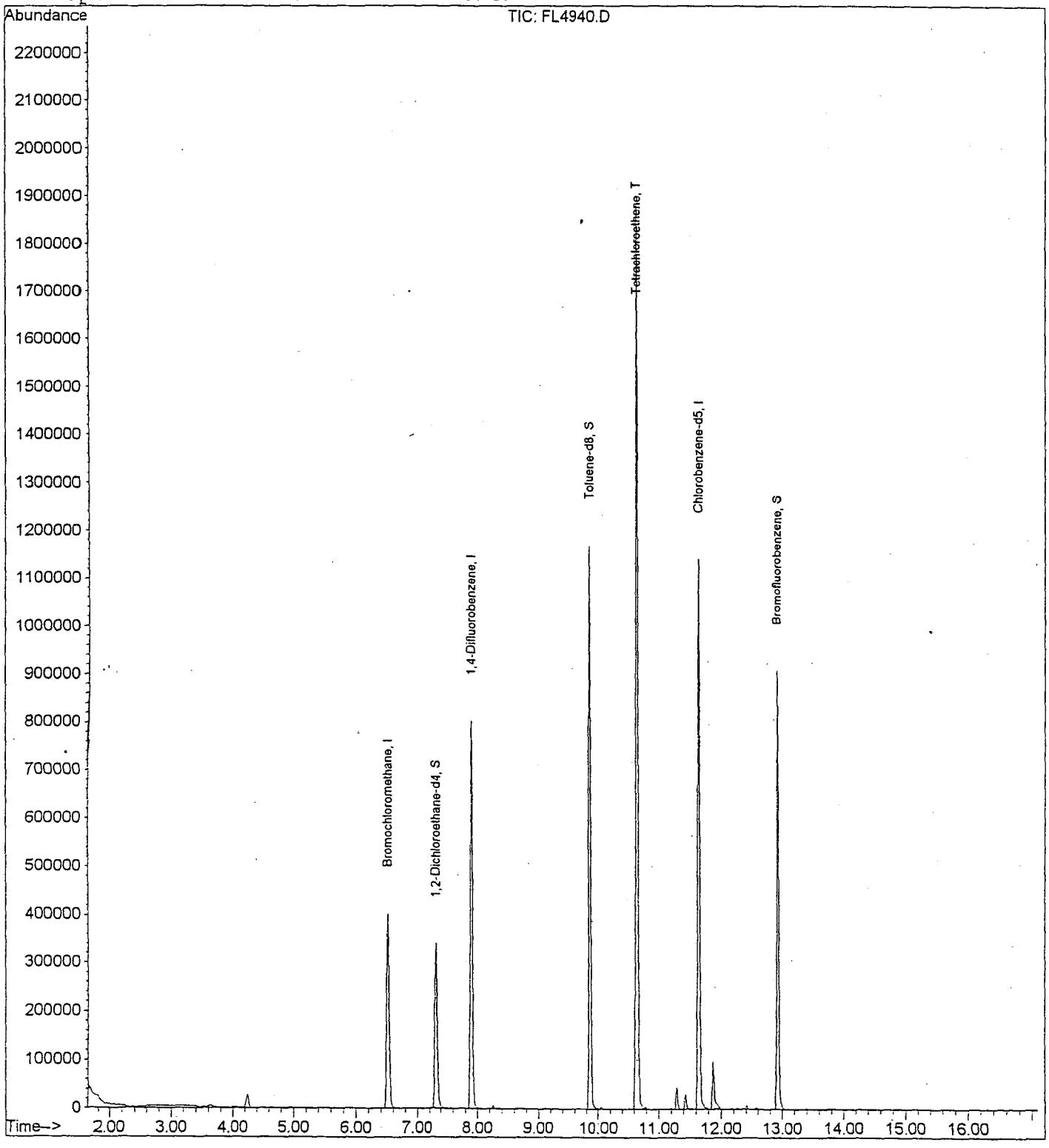
V
10-2-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4940.D Vial: 10
Acq On : 25 Sep 1998 19:07 Operator: GVC
Sample : AA72659 Inst : GCMS_3
Misc : M,4g/10mL--80uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000027

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72660 | *Matrix:* Soil

Client Id: C2-S-8 | *Initial Volume:* 5ml

Data File: fl4941 | *Final Volume:* NA

Date Analyzed: 25 Sep 1998 19:32 | *Dilution Factor:* 1250

Date Received/Extracted: 9/24/98-NA | *Percent Solids:* 87

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7200	U
79345	1,1,2,2-Tetrachloroethane	7200	U
79005	1,1,2-Trichloroethane	7200	U
75343	1,1-Dichloroethane	7200	U
75354	1,1-Dichloroethene	7200	U
95501	1,2-Dichlorobenzene	7200	U
107062	1,2-Dichloroethane	7200	U
78875	1,2-Dichloropropane	7200	U
541731	1,3-Dichlorobenzene	7200	U
106467	1,4-Dichlorobenzene	7200	U
110758	2-Chloroethylvinylether	7200	U
75274	Bromodichloromethane	7200	U
75252	Bromoform	7200	U
74839	Bromomethane	7200	U
56235	Carbon Tetrachloride	7200	U
108907	Chlorobenzene	7200	U
75003	Chloroethane	7200	U
67663	Chloroform	7200	U
74873	Chloromethane	7200	U
156592	Cis-1,2-Dichloroethene	7200	U
10061015	Cis-1,3-Dichloropropene	7200	U
124481	Dibromochloromethane	7200	U
75092	Methylene Chloride	7200	U
127184	Tetrachloroethene	7200	86000
156605	Trans-1,2-Dichloroethene	7200	U
10061026	Trans-1,3-Dichloropropene	7200	U
79016	Trichloroethene	7200	U
75694	Trichlorofluoromethane	7200	U
75014	Vinyl Chloride	7200	U

Total Target Concentration 86000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105930.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4941.D Vial: 11
Acq On : 25 Sep 1998 19:32 Operator: GVC
Sample : AA72660 Inst : GCMS_3
Misc : M,4g/10mL--80uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.52	128	109839	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.89	114	672813	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.64	117	622286	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	49911	28.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.70%			
42) Toluene-d8	9.86	98	875151	27.77	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.57%			
53) Bromofluorobenzene	12.93	176	124360	28.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.57%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	262007	59.61	ug/l	100

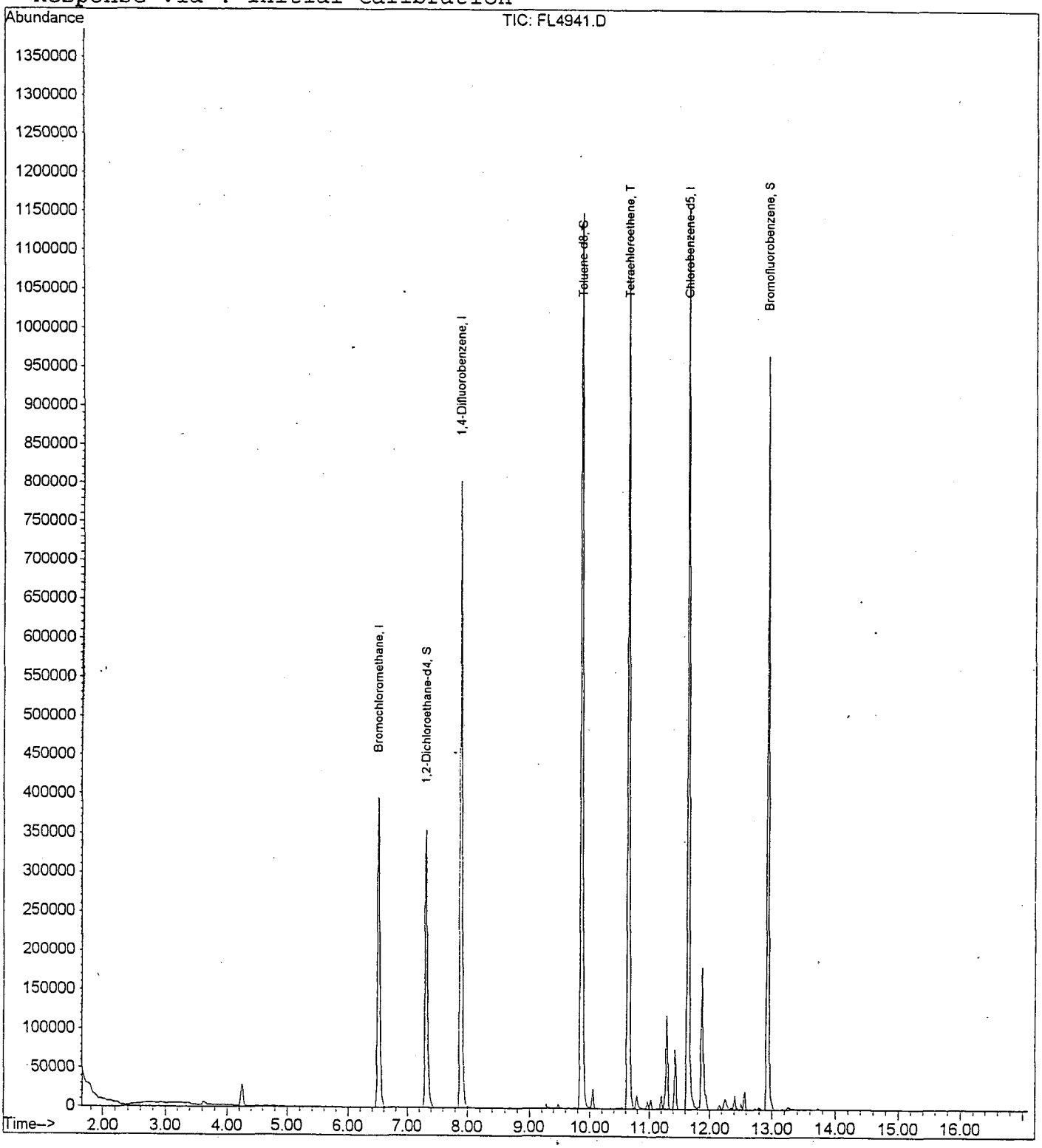
N
10-2-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4941.D Vial: 11
Acq On : 25 Sep 1998 19:32 Operator: GVC
Sample : AA72660 Inst : GCMS_3
Misc : M,4g/10mL--80uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update. : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000030

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72661 | *Matrix:* Soil

Client Id: C1-SE-5 | *Initial Volume:* 5ml

Data File: fl4943 | *Final Volume:* NA

Date Analyzed: 25 Sep 1998 20:24 | *Dilution Factor:* 5000

Date Received/Extracted: 9/24/98-NA | *Percent Solids:* 83

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	30000	U
79345	1,1,2,2-Tetrachloroethane	30000	U
79005	1,1,2-Trichloroethane	30000	U
75343	1,1-Dichloroethane	30000	U
75354	1,1-Dichloroethene	30000	U
95501	1,2-Dichlorobenzene	30000	U
107062	1,2-Dichloroethane	30000	U
78875	1,2-Dichloropropane	30000	U
541731	1,3-Dichlorobenzene	30000	U
106467	1,4-Dichlorobenzene	30000	U
110758	2-Chloroethylvinylether	30000	U
75274	Bromodichloromethane	30000	U
75252	Bromoform	30000	U
74839	Bromomethane	30000	U
56235	Carbon Tetrachloride	30000	U
108907	Chlorobenzene	30000	U
75003	Chloroethane	30000	U
67663	Chloroform	30000	U
74873	Chloromethane	30000	U
156592	Cis-1,2-Dichloroethene	30000	U
10061015	Cis-1,3-Dichloropropene	30000	U
124481	Dibromochloromethane	30000	U
75092	Methylene Chloride	30000	U
127184	Tetrachloroethene	30000	2500000
156605	Trans-1,2-Dichloroethene	30000	U
10061026	Trans-1,3-Dichloropropene	30000	U
79016	Trichloroethene	30000	U
75694	Trichlorofluoromethane	30000	U
75014	Vinyl Chloride	30000	U

Total Target Concentration 2500000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105930.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4943.D Vial: 13
Acq On : 25 Sep 1998 20:24 Operator: GVC
Sample : AA72661 Inst : GCMS_3
Misc : M,4g/10mL--20uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 10:55 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.52	128	111396	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.89	114	656217	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.64	117	627279	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	49992	28.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.50%			
42) Toluene-d8	9.86	98	858740	27.94	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.13%			
53) Bromofluorobenzene	12.93	176	122112	27.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.10%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	1863510	420.60	ug/l	98

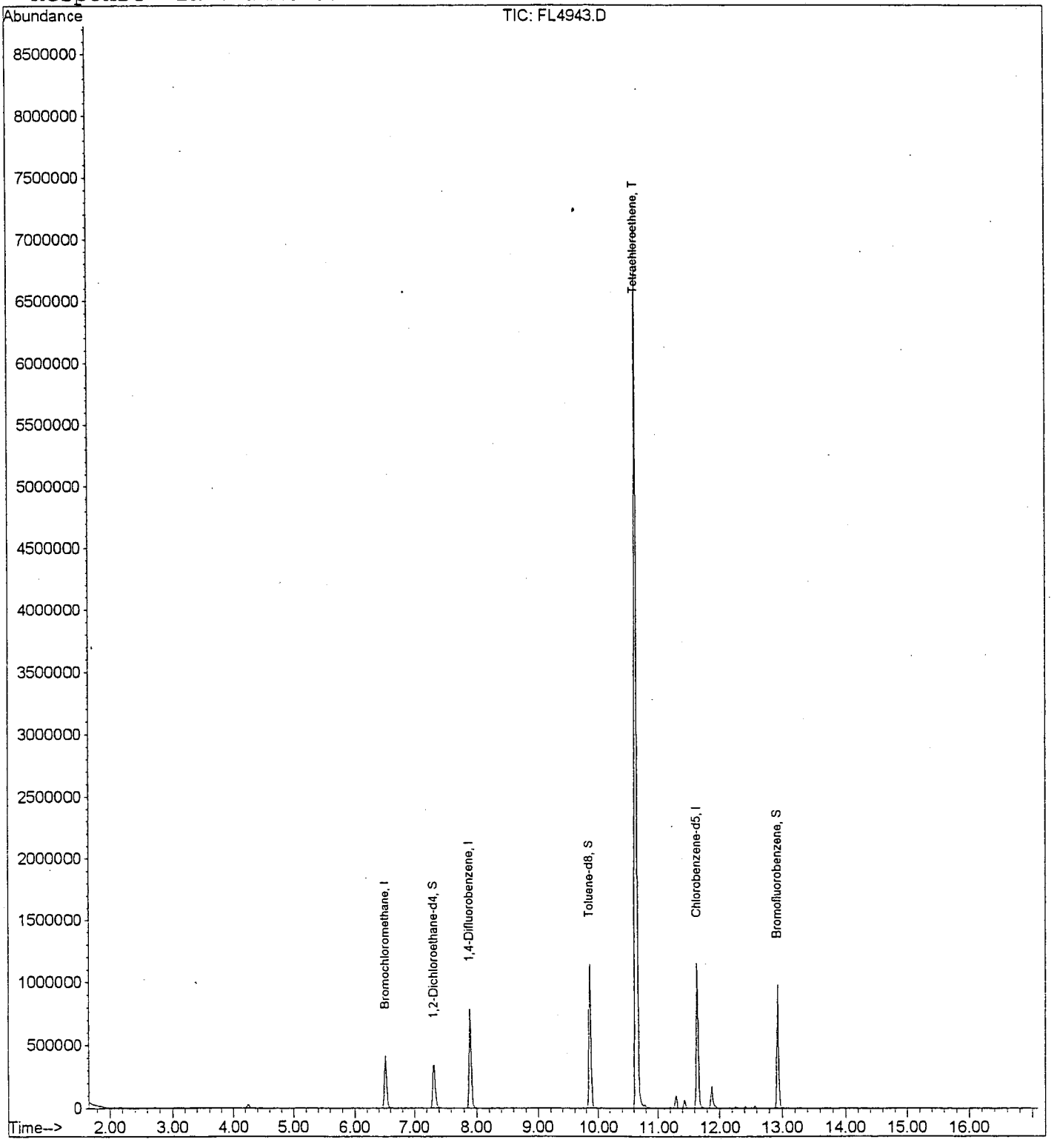
10-29

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4943.D Vial: 13
Acq On : 25 Sep 1998 20:24 Operator: GVC
Sample : AA72661 Inst : GCMS_3
Misc : M,4g/10mL--20uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 10:55 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72662 — *Matrix:* Soil

Client Id: C1-NE-5 — *Initial Volume:* 5ml

Data File: fl4939 — *Final Volume:* NA

Date Analyzed: 25 Sep 1998 18:41 — *Dilution Factor:* 500

Date Received/Extracted: 9/24/98-NA — *Percent Solids:* 82

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	3000	U
79345	1,1,2,2-Tetrachloroethane	3000	U
79005	1,1,2-Trichloroethane	3000	U
75343	1,1-Dichloroethane	3000	U
75354	1,1-Dichloroethene	3000	U
95501	1,2-Dichlorobenzene	3000	U
107062	1,2-Dichloroethane	3000	U
78875	1,2-Dichloropropane	3000	U
541731	1,3-Dichlorobenzene	3000	U
106467	1,4-Dichlorobenzene	3000	U
110758	2-Chloroethylvinylether	3000	U
75274	Bromodichloromethane	3000	U
75252	Bromoform	3000	U
74839	Bromomethane	3000	U
56235	Carbon Tetrachloride	3000	U
108907	Chlorobenzene	3000	U
75003	Chloroethane	3000	U
67663	Chloroform	3000	U
74873	Chloromethane	3000	U
156592	Cis-1,2-Dichloroethene	3000	3400
10061015	Cis-1,3-Dichloropropene	3000	U
124481	Dibromochloromethane	3000	U
75092	Methylene Chloride	3000	U
127184	Tetrachloroethene	3000	93000
156605	Trans-1,2-Dichloroethene	3000	U
10061026	Trans-1,3-Dichloropropene	3000	U
79016	Trichloroethene	3000	1200 J
75694	Trichlorofluoromethane	3000	U
75014	Vinyl Chloride	3000	U

Total Target Concentration 98000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105930.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4939.D Vial: 9
Acq On : 25 Sep 1998 18:41 Operator: GVC
Sample : AA72662 Inst : GCMS_3
Misc : M,4g/10mL--200uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.52	128	95312	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.89	114	588153	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.64	117	559564	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	44271	29.35	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.83%		
42) Toluene-d8	9.86	98	765190	27.78	ug/l	0.00
Spiked Amount 30.000			Recovery =	92.60%		
53) Bromofluorobenzene	12.93	176	111360	28.55	ug/l	0.00
Spiked Amount 30.000			Recovery =	95.17%		
Target Compounds						Qvalue
19) cis-1,2-Dichloroethene	6.16	61	74441	5.57	ug/l	91
35) Trichloroethene	8.25	130	10933	1.96	ug/l	89
47) Tetrachloroethene	10.64	164	603108	152.60	ug/l	100

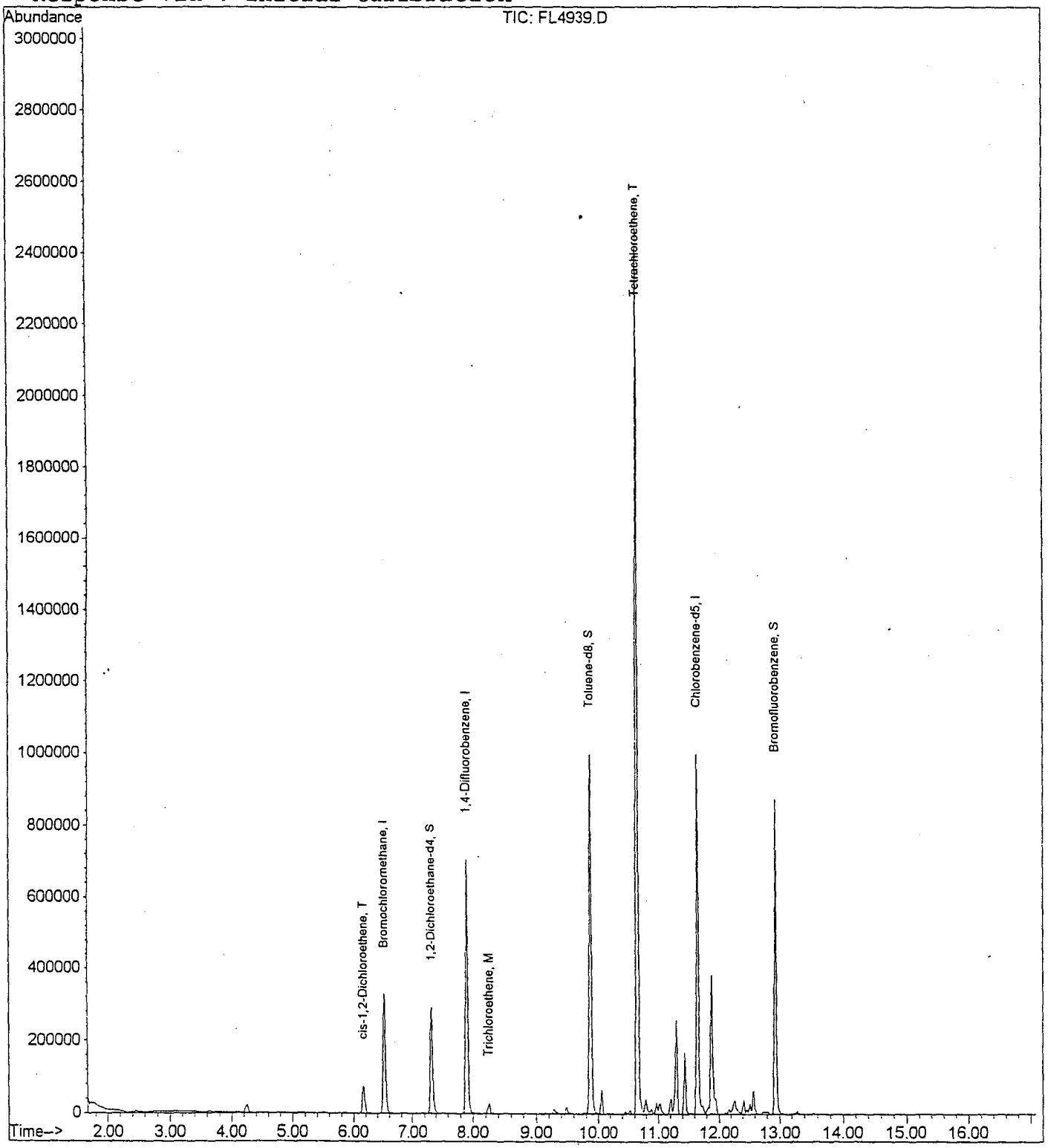
10-2-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4939.D Vial: 9
Acq On : 25 Sep 1998 18:41 Operator: GVC
Sample : AA72662 Inst : GCMS_3
Misc : M,4g/10mL--200uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:26 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
fl4902.d	DAILY BLANK(MEO	Methanol/Soil	110	99	117
fl4902a.d	DAILY BLANK(MEO	Methanol/Soil	115	98	108
fl4903.d	MBS(MEOH)	Methanol/Soil	120	92	104
fl4919.d	AA71776	Methanol/Soil	113	96	99
fl4920.d	AA72660	Methanol/Soil	101	104	111
fl4921.d	AA72658	Methanol/Soil	97	97	101
fl4922.d	AA72659	Methanol/Soil	93	96	92
fl4923.d	AA72657	Methanol/Soil	91	97	92
fl4924.d	AA72661	Methanol/Soil	97	96	94
fl4925.d	AA72662	Methanol/Soil	98	95	95
fl4926.d	C3-B-5 (ECOSYS)	Methanol/Soil	93	94	90
fl4927.d	C3-N-9 (ECOSYS)	Methanol/Soil	95	93	97
fl4928.d	C3-S-10 (ECOSYS)	Methanol/Soil	95	95	86
fl4929.d	C3-W-9 (ECOSYS)	Methanol/Soil	94	94	90
fl4930.d	BLANK	Aqueous	95	95	90

Quality Control Limits

	Aqueous Limits 8260			*Soil Limits 8260*		
Compound	*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 = 1,2-Dichloroethane-d4	30	80	120	30	80	120
S2 = Toluene-d8	30	88	110	30	81	117
S3 = Bromofluorobenzene	30	86	115	30	74	121

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
fl4933.d	DAILY BLANK(MEO	Methanol/Soil	107	97	108
fl4934.d	DAILY BLANK(MEO	Methanol/Soil	112	97	112
fl4935.d	C3-W-9	Methanol/Soil	111	91	107
fl4936.d	C3-B-5	Methanol/Soil	105	91	105
fl4937.d	C3-N-9	Methanol/Soil	110	90	100
fl4938.d	AA72658	Methanol/Soil	108	89	106
fl4939.d	AA72662	Methanol/Soil	98	93	95
fl4940.d	AA72659	Methanol/Soil	94	91	86
fl4941.d	AA72660	Methanol/Soil	96	93	96
fl4942.d	AA72657	Methanol/Soil	95	96	95
fl4943.d	AA72661	Methanol/Soil	95	93	93
fl4944.d	C3-S-10	Methanol/Soil	94	95	93
fl4945.d	BLANK	Aqueous	93	95	92
fl4946.d	BLANK	Aqueous	95	95	98
fl4947.d	EF1-1447(1/5)	Aqueous	95	98	93
fl4948.d	AA71531(1/5)	Aqueous	95	99	92
fl4949.d	AA72241(1/5)	Aqueous	96	99	93
fl4950.d	AA72242(1/5)	Aqueous	94	98	93
fl4951.d	AA72243(1/5)	Aqueous	92	96	87
fl4952.d	AA72244(1/5)	Aqueous	92	98	92
fl4953.d	AA72250(1/5)	Aqueous	92	98	95
fl4954.d	MBS(MEOH)	Methanol/Soil	101	97	97
fl4955.d	C3-W-9(MS)	Methanol/Soil	111	94	101
fl4956.d	C3-W-9(MSD)	Methanol/Soil	114	92	108
fl4957.d	AA71878	Methanol/Soil	94	75 *	82
fl4958.d	AA72204	Aqueous	95	94	97
fl4959.d	AA72205	Aqueous	94	94	100
fl4960.d	AA72377	Aqueous	94	95	100

Quality Control Limits

		Aqueous Limits 8260			*Soil Limits 8260*		
	Compound	*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 =	1,2-Dichloroethane-d4	30	80	120	30	80	120
S2 =	Toluene-d8	30	88	110	30	81	117
S3 =	Bromofluorobenzene	30	86	115	30	74	121

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form3
VOLATILE SPIKE RECOVERY FORM METHANOL

Data File	*Sample Number*	*Date Analyzed*	*Dilution*
fl4903.d	MBS(MEOH)	24 Sep 1998 17:49	1
fl4908.d	AA72254	24 Sep 1998 19:58	1
fl4904.d	AA72254(MS)	24 Sep 1998 18:14	1
fl4905.d	AA72254(MSD)	24 Sep 1998 18:40	1

		Quality Control Limits			*Concentration*				*Percent Recovery*			
Compound	*Amt Spk'd*	*Recovery Low*	*Hi*	*RPD*	*MBS*	*Sample*	*MS*	*MSD*	*MBS*	*MS*	*MSD*	*RPD*
1,1-Dichloroethene	20	59	172	22	N/A	0.00	11.76	12.66	N/A	59	63	7.4
Benzene	20	66	142	21	N/A	0.00	22.31	22.13	N/A	112	111	0.81
Chlorobenzene	20	60	133	21	N/A	0.00	23.25	23.19	N/A	116	116	0.26
Toluene	20	59	139	21	N/A	3.34	23.32	24.04	N/A	100	104	3.5
Trichloroethene	20	62	137	24	N/A	0.00	20.63	21.35	N/A	103	107	3.4

* - *Values outside of Recovery limits*

\# - *Values outside of RPD limits*

^ - *Both Spike And Duplicate Recoveries = 0 (no meaningful result available)*

NA - Not applicable

Form 4

Method Blank Name: DAILY BL *Date Analyzed:* 24 Sep 1998 17:22

Method Blank File: fl4902a.d *Date Extracted:* na

Matrix: Water

Sample File	*Sample Name*	*Date Analyzed*
fl4903.d	MBS(MEOH)	24 Sep 1998 17:49
fl4904.d	AA72254(MS)	24 Sep 1998 18:14
fl4905.d	AA72254(MSD)	24 Sep 1998 18:40
fl4906.d	AA72258	24 Sep 1998 19:06
fl4907.d	AA72405	24 Sep 1998 19:32
fl4908.d	AA72254	24 Sep 1998 19:58
fl4909.d	AA72255	24 Sep 1998 20:24
fl4910.d	AA72403	24 Sep 1998 20:49
fl4911.d	AA72257	24 Sep 1998 21:15
fl4912.d	AA72253(1/10)	24 Sep 1998 21:44
fl4913.d	AA72404(1/10)	24 Sep 1998 22:13
fl4914.d	AA72252(1/50)	24 Sep 1998 22:41
fl4915.d	AA72256(1/50)	24 Sep 1998 23:10
fl4916.d	AA72401	24 Sep 1998 23:36
fl4917.d	AA72402	25 Sep 1998 00:01
fl4918.d	AA72400	25 Sep 1998 00:30
fl4919.d	AA71776	25 Sep 1998 00:56
fl4920.d	AA72660	25 Sep 1998 10:03
fl4921.d	AA72658	25 Sep 1998 10:29
fl4922.d	AA72659	25 Sep 1998 10:55
fl4923.d	AA72657	25 Sep 1998 11:21
fl4924.d	AA72661	25 Sep 1998 11:46
fl4925.d	AA72662	25 Sep 1998 12:12
fl4926.d	C3-B-5 (ECOS	25 Sep 1998 12:38
fl4927.d	C3-N-9 (ECOS	25 Sep 1998 13:04
fl4928.d	C3-S-10 (ECO	25 Sep 1998 13:30
fl4929.d	C3-W-9 (ECOS	25 Sep 1998 13:56
fl4930.d	BLANK	25 Sep 1998 14:21

Form 4

Method Blank Name: DAILY BL *Date Analyzed:* 25 Sep 1998 16:31

Method Blank File: fl4934.d *Date Extracted:* na

Matrix: Water

Sample File	*Sample Name*	*Date Analyzed*
fl4935.d	C3-W-9	25 Sep 1998 16:57
fl4936.d	C3-B-5	25 Sep 1998 17:23
fl4937.d	C3-N-9	25 Sep 1998 17:49
fl4938.d	AA72658	25 Sep 1998 18:15
fl4939.d	AA72662	25 Sep 1998 18:41
fl4940.d	AA72659	25 Sep 1998 19:07
fl4941.d	AA72660	25 Sep 1998 19:32
fl4942.d	AA72657	25 Sep 1998 19:58
fl4943.d	AA72661	25 Sep 1998 20:24
fl4944.d	C3-S-10	25 Sep 1998 20:50
fl4954.d	MBS(MEOH)	26 Sep 1998 1:10
fl4955.d	C3-W-9(MS)	26 Sep 1998 1:36
fl4956.d	C3-W-9(MSD)	26 Sep 1998 2:02
fl4957.d	AA71878	26 Sep 1998 2:28

Form5
CAL BFB TUNE

Tune File: fl4895.d

Date/Time Analyzed: 24 Sep 1998 13:38

Instrument: gcms_3

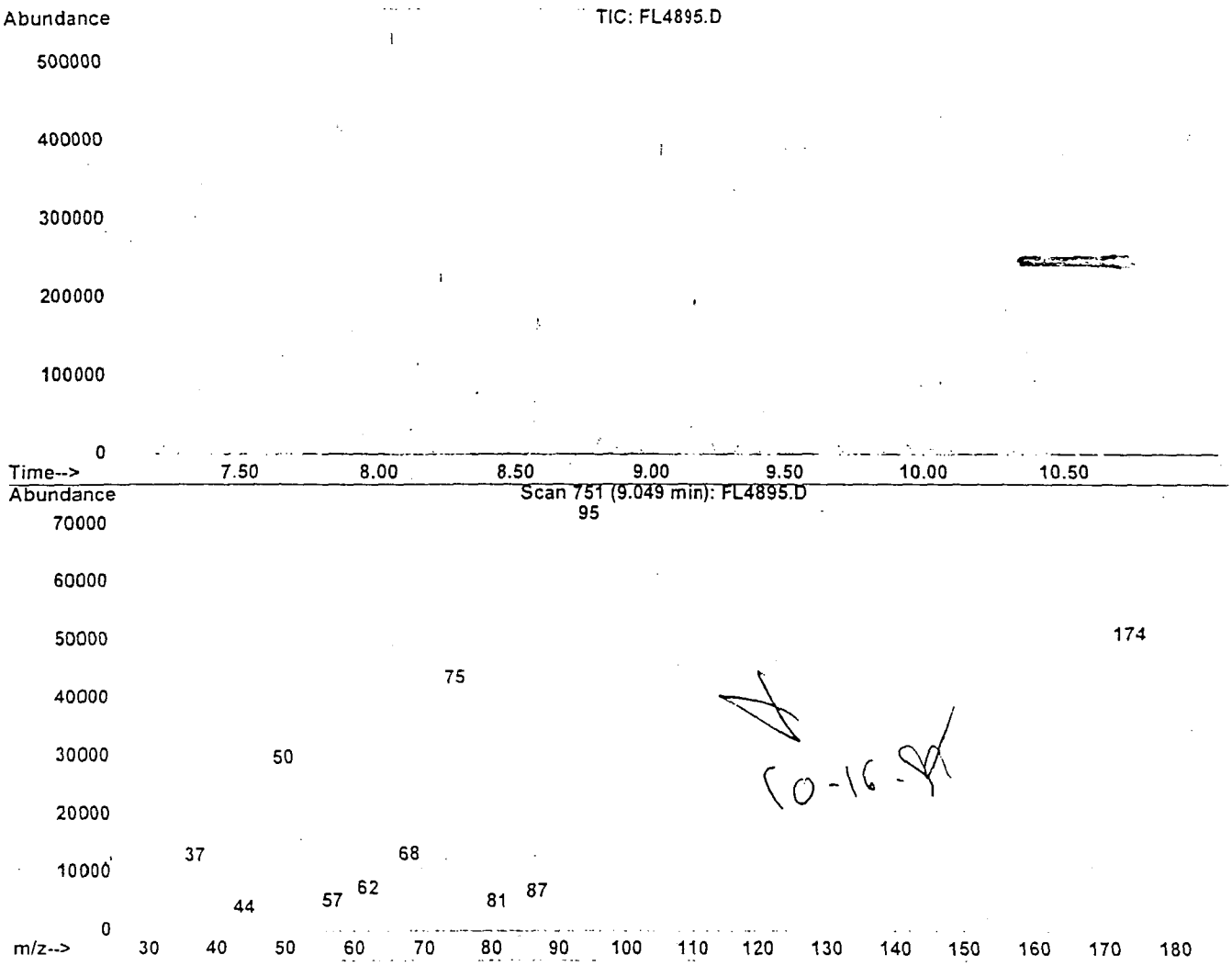
Tune Scan/Time Range: Scan 751

Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	39.7	27784	PASS
75	95	30	60	59.4	41568	PASS
95	95	100	100	100.0	69984	PASS
96	95	5	9	7.6	5333	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.1	49048	PASS
175	174	5	9	7.6	3711	PASS
176	174	95	101	98.8	48456	PASS
177	176	5	9	6.5	3173	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fl4896.d	CAL @ 500ppb	24 Sep 1998 14:05
fl4897.d	CAL @ 100ppb	24 Sep 1998 14:31
fl4898.d	CAL @ 50ppb	24 Sep 1998 14:57
fl4899.d	CAL @ 20ppb	24 Sep 1998 15:23
fl4900.d	CAL @ 10ppb	24 Sep 1998 15:49
fl4901.d	CAL @ 5ppb	24 Sep 1998 16:15
fl4902.d	DAILY BLANK(MEO	24 Sep 1998 16:47
fl4902a.d	DAILY BLANK(MEO	24 Sep 1998 17:22
fl4903.d	MBS(MEOH)	24 Sep 1998 17:49
fl4904.d	AA72254(MS)	24 Sep 1998 18:14
fl4905.d	AA72254(MSD)	24 Sep 1998 18:40
fl4906.d	AA72258	24 Sep 1998 19:06
fl4907.d	AA72405	24 Sep 1998 19:32
fl4908.d	AA72254	24 Sep 1998 19:58
fl4909.d	AA72255	24 Sep 1998 20:24
fl4910.d	AA72403	24 Sep 1998 20:49
fl4911.d	AA72257	24 Sep 1998 21:15
fl4912.d	AA72253(1/10)	24 Sep 1998 21:44
fl4913.d	AA72404(1/10)	24 Sep 1998 22:13
fl4914.d	AA72252(1/50)	24 Sep 1998 22:41
fl4915.d	AA72256(1/50)	24 Sep 1998 23:10
fl4916.d	AA72401(1/20)	24 Sep 1998 23:36
fl4917.d	AA72402(1/20)	25 Sep 1998 00:01
fl4918.d	AA72400(1/200)	25 Sep 1998 00:30
fl4919.d	AA71776	25 Sep 1998 00:56
fl4920.d	AA72660	25 Sep 1998 10:03
fl4921.d	AA72658	25 Sep 1998 10:29
fl4922.d	AA72659	25 Sep 1998 10:55
fl4923.d	AA72657	25 Sep 1998 11:21
fl4924.d	AA72661	25 Sep 1998 11:46
fl4925.d	AA72662	25 Sep 1998 12:12
fl4926.d	C3-B-5 (ECOSYS)	25 Sep 1998 12:38
fl4927.d	C3-N-9 (ECOSYS)	25 Sep 1998 13:04
fl4928.d	C3-S-10 (ECOSYS)	25 Sep 1998 13:30
fl4929.d	C3-W-9 (ECOSYS)	25 Sep 1998 13:56
fl4930.d	BLANK	25 Sep 1998 14:21

CLPBFB

Data File : G:\GCMSDATA\GCMS_3\09-24-98\FL4895.D Vial: 5
Acq On : 24 Sep 1998 13:38 Operator: GVC
Sample : CAL BFB TUNE Inst : GCMS_3
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MG0922.M (RTE Integrator)
Title : @GCMS_3



10-16-98

Spectrum Information: Scan 751

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	39.7	27784	PASS
75	95	30	60	59.4	41568	PASS
95	95	100	100	100.0	69984	PASS
96	95	5	9	7.6	5333	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.1	49048	PASS
175	174	5	9	7.6	3711	PASS
176	174	95	101	98.8	48456	PASS
177	176	5	9	6.5	3173	PASS

Form5
CAL BFB TUNE

Tune File: fl4931.d

Date/Time Analyzed: 25 Sep 1998 14:46

Instrument: gcms_3

Tune Scan/Time Range: Scan 751

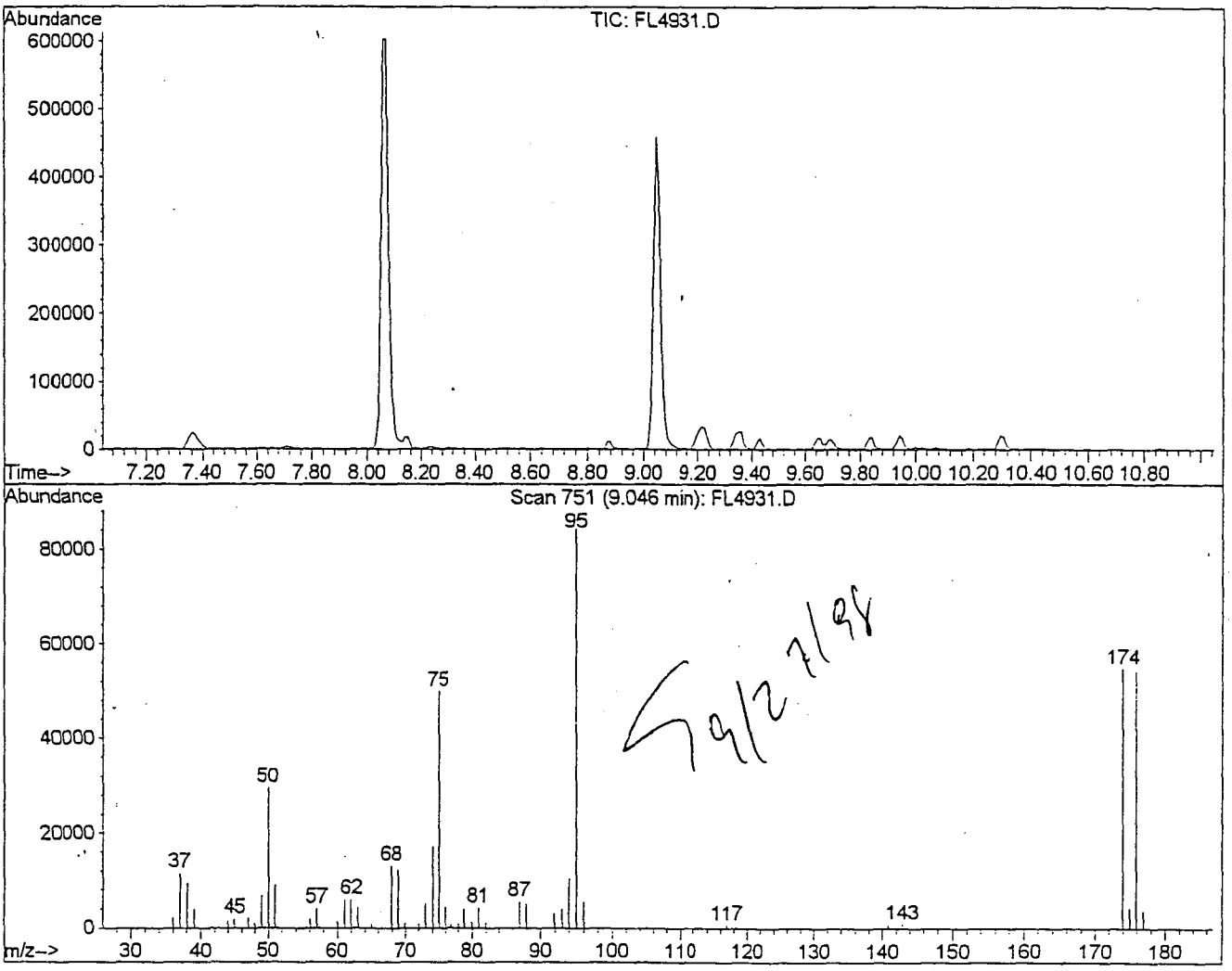
Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	35.1	29584	PASS
75	95	30	60	59.2	49952	PASS
95	95	100	100	100.0	84344	PASS
96	95	5	9	6.7	5645	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.0	54792	PASS
175	174	5	9	7.8	4285	PASS
176	174	95	101	99.0	54248	PASS
177	176	5	9	7.0	3795	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fl4932.d	CAL @ 20ppb	25 Sep 1998 15:20
fl4933.d	DAILY BLANK(MEO	25 Sep 1998 15:54
fl4934.d	DAILY BLANK(MEO	25 Sep 1998 16:31
fl4935.d	C3-W-9	25 Sep 1998 16:57
fl4936.d	C3-B-5	25 Sep 1998 17:23
fl4937.d	C3-N-9	25 Sep 1998 17:49
fl4938.d	AA72658	25 Sep 1998 18:15
fl4939.d	AA72662	25 Sep 1998 18:41
fl4940.d	AA72659	25 Sep 1998 19:07
fl4941.d	AA72660	25 Sep 1998 19:32
fl4942.d	AA72657	25 Sep 1998 19:58
fl4943.d	AA72661	25 Sep 1998 20:24
fl4944.d	C3-S-10	25 Sep 1998 20:50
fl4945.d	BLANK	25 Sep 1998 21:16
fl4946.d	BLANK	25 Sep 1998 21:42
fl4947.d	EF1-1447(1/5)	25 Sep 1998 22:08
fl4948.d	AA71531(1/5)	25 Sep 1998 22:34
fl4949.d	AA72241(1/5)	25 Sep 1998 23:00
fl4950.d	AA72242(1/5)	25 Sep 1998 23:26
fl4951.d	AA72243(1/5)	25 Sep 1998 23:52
fl4952.d	AA72244(1/5)	26 Sep 1998 00:18
fl4953.d	AA72250(1/5)	26 Sep 1998 00:44
fl4954.d	MBS(MEOH)	26 Sep 1998 1:10
fl4955.d	C3-W-9(MS)	26 Sep 1998 1:36
fl4956.d	C3-W-9(MSD)	26 Sep 1998 2:02
fl4957.d	AA71878	26 Sep 1998 2:28
fl4958.d	AA72204	26 Sep 1998 2:54
fl4959.d	AA72205	26 Sep 1998 3:20
fl4960.d	AA72377	26 Sep 1998 3:46
fl4961.d	AA72580	26 Sep 1998 4:12
fl4962.d	AA72581	26 Sep 1998 4:38
fl4963.d	AA72615	26 Sep 1998 5:04
fl4964.d	AA72626	26 Sep 1998 5:30
fl4965.d	AA72627	26 Sep 1998 13:47
fl4966.d	AA72688	26 Sep 1998 14:13
fl4967.d	AA72689	26 Sep 1998 14:39

CLPBFB

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4931.D
Acq On : 25 Sep 1998 14:46
Sample : CAL BFB TUNE
Misc : A,5mL
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3

Vial: 1
Operator: GVC
Inst : GCMS_3
Multiplr: 1.00



Spectrum Information: Scan 751

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	35.1	29584	PASS
75	95	30	60	59.2	49952	PASS
95	95	100	100	100.0	84344	PASS
96	95	5	9	6.7	5645	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.0	54792	PASS
175	174	5	9	7.8	4285	PASS
176	174	95	101	99.0	54248	PASS
177	176	5	9	7.0	3795	PASS

FL4931.D MG0924.M Sun Sep 27 10:46:29 1998 SYSTEM1

Form6
Initial Calibration

Method File: G:\GCMSDATA\methods\mg0924.m *Instrument:* GCMS_3

Level #	Data File	Data File Analysis Date	Concentration	Calibration File Update Time
1	FL4901.D	24 Sep 1998 16:15	5	Thu Sep 24 17:23:59 1998
2	FL4900.D	24 Sep 1998 15:49	10	Thu Sep 24 17:24:04 1998
3	FL4899.D	24 Sep 1998 15:23	20	Thu Sep 24 17:24:07 1998
4	FL4898.D	24 Sep 1998 14:57	50	Thu Sep 24 17:24:13 1998
5	FL4897.D	24 Sep 1998 14:31	100	Thu Sep 24 17:24:19 1998
6	FL4896.D	24 Sep 1998 14:05	500	Thu Sep 24 17:24:23 1998

Response Factors

Compound	Fit	Level 1	2	3	4	5	6	Average RF	R.T.	Corr1	Corr2	%Rsd	*/** (limits)	Alternate Curve Conc
Dichlorodifluoromethane	Avg	2.480	2.555	2.497	2.423	2.450	1.998	2.401	1.720	0.9981	1.0000	8.4186		
Chloromethane	Avg	4.115	4.251	4.144	4.084	3.785	3.344	3.954	1.927	0.9993	1.0000	8.5229	**(0.100)	
Bromomethane	Avg	1.228	1.197	1.200	1.201	1.148	0.546	1.086	2.419	0.9512	1.0000	24.5093		
Vinyl Chloride	Avg	1.591	1.649	1.609	1.578	1.705	1.493	1.604	2.035	0.9992	0.9999	4.4439	*(30)	
Chloroethane	Avg	0.846	0.843	0.799	0.797	0.780	0.579	0.774	2.537	0.9954	1.0000	12.8027		
Trichlorofluoromethane	Avg	1.519	1.523	1.528	1.521	1.523	1.391	1.501	2.833	0.9997	1.0000	3.5772		
Methylene Chloride	Avg	2.473	1.895	1.709	1.534	1.499	1.216	1.721	4.281	0.9984	1.0000	25.1189		
Acrolein	Avg	0.133	0.154	0.154	0.159	0.160	0.125	0.147	3.424	0.9968	1.0000	9.9956		25 50 100 250 500 25
Acrylonitrile	Avg	0.766	0.805	0.812	0.805	0.795	0.586	0.761	4.695	0.9950	1.0000	11.4823		25 50 100 250 500 25
Acetone	Avg	1.085	0.905	0.769	0.696	0.641	0.494	0.765	3.651	0.9973	1.0000	27.1445		25 50 100 250 500 25
Carbon Disulfide	Avg	3.557	3.521	3.519	3.376	3.431	2.959	3.394	3.828	0.9991	1.0000	6.5806		
t-Butyl Alcohol	Avg	0.059	0.078	0.088	0.107	0.126	0.123	0.097	4.547	0.9998	0.9998	27.4936		25 50 100 250 500 25
Di-isopropyl-ether	Avg	11.537	12.817	13.962	14.732	14.762	12.407	13.369	5.404	0.9984	1.0000	9.8872		
1,1-Dichloroethene	Avg	2.398	2.403	2.380	2.341	2.290	1.933	2.291	3.513	0.9987	1.0000	7.8747	*(30)	
Methyl-t-butyl ether	Avg	3.129	3.393	3.833	4.020	4.383	3.803	3.760	4.675	0.9989	0.9999	11.8660		
1,1-Dichloroethane	Avg	3.802	3.799	3.922	4.020	4.077	3.820	3.907	5.335	0.9998	1.0000	3.0802	**(0.100)	
trans-1,2-Dichloroethene	Avg	1.240	1.298	1.325	1.313	1.290	1.018	1.247	4.675	0.9972	1.0000	9.3077		
cis-1,2-Dichloroethene	Avg	3.778	4.076	4.391	4.416	4.404	3.631	4.116	6.192	0.9981	1.0000	8.4126		
2,2-Dichloropropane	Avg	2.692	2.640	2.897	2.991	3.130	2.748	2.850	6.153	0.9992	1.0000	6.6539		
1,1-Dichloropropene	Avg	2.446	2.868	3.321	3.525	3.497	3.074	3.122	7.098	0.9991	1.0000	13.3317		
Chloroform	Avg	3.505	3.561	3.545	3.592	3.604	3.408	3.536	6.665	0.9999	1.0000	2.0345	*(30)	
1,2-Dichloroethane-d4	Avg	0.487	0.491	0.466	0.522	0.518	0.499	0.497	7.354	0.0000	0.0000	4.1789		30 30 30 30 30
1,2-Dichloroethane	Avg	3.856	3.955	4.039	4.166	4.038	3.766	3.970	7.463	0.9998	1.0000	3.6054		
2-Butanone	Avg	0.185	0.219	0.261	0.296	0.300	0.273	0.256	6.241	0.9994	1.0000	17.7048		
1,2-Dibromoethane	Avg	0.307	0.328	0.343	0.359	0.348	0.315	0.333	11.157	0.9995	1.0000	6.0502		
1,1,1-Trichloroethane	Avg	0.471	0.438	0.455	0.450	0.455	0.415	0.447	6.862	0.9996	1.0000	4.3185		
Carbon Tetrachloride	Avg	0.403	0.384	0.397	0.381	0.371	0.312	0.375	7.088	0.9987	1.0000	8.7546		
Vinyl Acetate	Avg	2.055	2.285	2.459	2.501	2.380	1.939	2.270	5.414	0.9978	1.0000	9.9859		
Bromodichloromethane	Avg	0.498	0.486	0.516	0.526	0.514	0.469	0.501	8.980	0.9996	1.0000	4.2736		
Dibromomethane	Avg	0.189	0.188	0.189	0.192	0.184	0.159	0.183	8.783	0.9990	1.0000	6.5977		
1,2-Dichloropropane	Avg	0.556	0.582	0.615	0.622	0.604	0.521	0.583	8.596	0.9989	1.0000	6.6782	*(30)	
cis-1,3-Dichloropropene	Avg	0.470	0.503	0.572	0.603	0.584	0.531	0.544	9.571	0.9995	1.0000	9.4019		
Trichloroethene	Avg	0.257	0.275	0.289	0.293	0.281	0.245	0.273	8.280	0.9991	1.0000	6.8312		
Benzene	Avg	1.501	1.494	1.521	1.474	1.378	1.166	1.422	7.394	0.9987	1.0000	9.5062		
Dibromochloromethane	Avg	0.341	0.344	0.361	0.376	0.371	0.334	0.355	11.029	0.9995	1.0000	4.8655		
2-Chloroethylvinylether	Avg	0.129	0.167	0.222	0.268	0.277	0.263	0.221	9.364	0.9997	1.0000	27.5323		
trans-1,3-Dichloropropene	Avg	0.408	0.441	0.503	0.543	0.526	0.482	0.484	10.300	0.9995	1.0000	10.6438		
1,1,2-Trichloroethane	Avg	0.300	0.291	0.305	0.317	0.305	0.266	0.297	10.536	0.9991	1.0000	5.8290		
1,3-Dichloropropane	Avg	0.623	0.629	0.664	0.687	0.666	0.596	0.644	10.743	0.9994	1.0000	5.2586		
Bromoform	Avg	0.243	0.246	0.254	0.263	0.259	0.248	0.252	12.644	0.9999	1.0000	3.1751	**(0.100)	
4-Methyl-2-Pentanone	Avg	0.446	0.511	0.565	0.615	0.651	0.613	0.567	9.758	0.9998	1.0000	13.4690		
2-Hexanone	Avg	0.338	0.380	0.435	0.479	0.504	0.465	0.433	10.812	0.9996	1.0000	14.6005		
Tetrachloroethene	Avg	0.276	0.239	0.236	0.210	0.204	0.172	0.223	10.674	0.9989	1.0000	15.9378		
1,1,2,2-Tetrachloroethane	Avg	0.620	0.615	0.601	0.585	0.551	0.422	0.566	13.117	0.9965	1.0000	13.1663	**(0.300)	
Toluene-d8	Avg	0.912	0.916	0.910	0.914	0.921	0.962	0.922	9.896	0.0000	0.0000	2.1327		30 30 30 30 30
Toluene	Avg	0.774	0.787	0.801	0.757	0.731	0.617	0.745	9.985	0.9987	1.0000	9.0283	*(30)	
1,1,1,2-Tetrachloroethane	Avg	0.286	0.273	0.282	0.277	0.272	0.222	0.269	11.797	0.9981	1.0000	8.7322		
Chlorobenzene	Avg	0.872	0.873	0.852	0.818	0.772	0.625	0.802	11.709	0.9979	1.0000	11.8008	**(0.300)	
Ethylbenzene	Avg	0.374	0.389	0.391	0.375	0.355	0.256	0.357	11.797	0.9943	1.0000	14.3004	*(30)	
Bromofluorobenzene	Avg	0.212	0.222	0.207	0.215	0.202	0.223	0.214	12.959	0.0000	0.0000	3.7911		30 30 30 30 30
Styrene	Avg	0.871	0.956	0.956	0.935	0.881	0.671	0.878	12.398	0.9961	1.0000	12.2912		
m&p-Xylenes	Avg	0.506	0.514	0.509	0.478	0.441	0.306	0.459	11.925	0.9925	1.0000	17.3802		10 20 40 100 200 10
o-Xylene	Avg	0.450	0.508	0.524	0.503	0.470	0.343	0.466	12.378	0.9945	1.0000	14.1632		
1,3-Dichlorobenzene	Avg	0.608	0.650	0.619	0.607	0.560	0.475	0.586	14.073	0.9987	1.0000	10.5441		
1,4-Dichlorobenzene	Avg	0.589	0.651	0.633	0.621	0.582	0.513	0.598	14.161	0.9992	1.0000	8.2458		
1,2-Dichlorobenzene	Avg	0.575	0.639	0.612	0.594	0.557	0.482	0.576	14.536	0.9991	1.0000	9.4435		
Isopropylbenzene	Avg	0.799	0.907	0.979	0.970	0.944	0.812	0.902	12.763	0.9989	1.0000	8.7497		
1,2,3-Trichloropropane	Avg	0.651	0.655	0.655	0.647	0.625	0.531	0.627	13.166	0.9988	1.0000	7.7071		
4-Chlorotoluene	Avg	1.186	1.267	1.149	1.224	1.170	1.003	1.167	13.304	0.9989	1.0000	7.7492		
2-Chlorotoluene	Avg	1.149	1.218	1.196	1.179	1.101	0.973	1.136	13.423	0.9993	1.0000	7.9015		
n-Propylbenzene	Avg	1.552	1.672	1.696	1.647	1.575	1.316	1.577	13.186	0.9985	1.0000	8.8300		
Bromobenzene	Avg	1.050	1.056	1.063	1.038	0.973	0.761	0.990	13.127	0.9969	1.0000	11.8066		
1,3,5-Trimethylbenzene	Avg	0.933	0.997	1.011	0.989	0.938	0.829	0.950	13.363	0.9993	1.0000	7.0449		
t-Butylbenzene	Avg	0.621	0.707	0.849	0.741	0.802	0.617	0.723	13.698	0.9965	0.9998	13.0486		
1,2,4-Trimethylbenzene	Avg	0.995	1.059	1.076	1.049	1.002	0.877	1.010	13.748	0.9992	1.0000	7.1901		
sec-Butylbenzene	Avg	0.882	1.031	1.084	1.065	1.038	0.926	1.004	13.915	0.9994	1.0000	8.0867		
4-Isopropyltoluene	Avg	0.738	0.844	0.865	0.865	0.824	0.662	0.800	14.043	0.9976	1.0000	10.2745		
n-Butylbenzene	Avg	0.812	0.936	0.992	0.989	0.955	0.849	0.922	14.447	0.9993	1.0000	8.1348		
1,2-Dibromo-3-Chloropropa	Avg	0.076	0.095	0.093	0.104	0.101	0.098	0.094	15.284	0.9999	1.0000	10.5722		
Hexachlorobutadiene	Avg	0.151	0.169	0.163	0.152	0.148	0.108	0.149	16.141	0.9950	1.0000	14.4168		
1,2,4-Trichlorobenzene	Avg	0.305	0.347	0.358	0.356	0.327	0.271	0.327	16.033	0.9981	0.9999	10.4679		
1,2,3-Trichlorobenzene	Avg	0.325	0.364	0.353	0.346	0.312	0.250	0.325	16.516	0.9975	0.9999	12.6553		
Naphthalene	Avg	1.001	1.161	1.167	1.153	1.055	0.815	1.059	16.289	0.9963	0.9999	12.9461		

Avg Rsd: 10.1964

Flags
a - failed the spcc criteria *' - ccc compound*
b - failed the ccc criteria *'' - spcc compound*
c - failed the minimum correlation coeff criteria(if applicabl

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compoun

Form7

CONTINUING CALIBRATION FORM 8260

Data file: fl4932.d

Calibration Name: CAL @ 20ppb

Calibration Date/Time: 25 Sep 1998 15:20

Instrument: gcms_3

Compound	Init R.F.	Cont R.T.	Cont R.F.	Conc Exp	Conc Found	%Diff	Limit(s)
Bromochloromethane		6.52	IS				
Dichlorodifluoromethane	2.4006	1.71	1.8036	20.00	14.31	28	**
Chloromethane	3.9539	1.91	3.6478	20.00	18.02	9.9P	0.100
Bromomethane	1.0865	2.40	1.1402	20.00	20.80	4.0	**
Vinyl Chloride	1.6042	2.02	1.4848	20.00	18.12	9.4C	20
Chloroethane	0.7741	2.51	0.7803	20.00	19.37	3.1	**
Trichlorofluoromethane	1.5008	2.81	1.5627	20.00	19.37	3.1	**
Methylene Chloride	1.7211	4.26	1.7041	20.00	17.86	11	**
Acrolein	0.1474	3.40	0.1478	100.00	88.80	11	**
Acrylonitrile	0.7615	4.68	0.7664	100.00	95.92	4.1	**
Acetone	0.7649	3.62	0.6496	100.00	90.24	9.8	**
Carbon Disulfide	3.3939	3.80	2.7388	20.00	15.38	23	**
t-Butyl Alcohol	0.0969	4.52	0.0996	100.00	89.46	11	**
Di-isopropyl-ether	13.3694	5.38	13.2490	20.00	19.02	4.9	**
1,1-Dichloroethene	2.2908	3.49	2.0200	20.00	16.70	17C	20
Methyl-t-butyl ether	3.7603	4.65	3.7171	20.00	17.83	11	**
1,1-Dichloroethane	3.9068	5.30	3.8303	20.00	18.76	6.2P	0.100
trans-1,2-Dichloroethene	1.2474	4.65	1.3639	20.00	20.38	1.9	**
cis-1,2-Dichloroethene	4.1160	6.17	4.3278	20.00	20.58	2.9	**
2,2-Dichloropropane	2.8496	6.13	2.9944	20.00	19.48	2.6	**
1,1-Dichloropropene	3.1218	7.07	3.3229	20.00	21.29	6.4	**
Chloroform	3.5359	6.64	3.7802	20.00	20.20	1.0C	20
1,2-Dichloroethane-d4	0.4972	7.33	0.4898	30.00	30.95	3.2	**
1,2-Dichloroethane	3.9701	7.43	4.0919	20.00	20.12	0.60	**
1,4-Difluorobenzene		7.90	IS				
2-Butanone	0.2555	6.22	0.2509	20.00	18.00	10	**
1,2-Dibromoethane	0.3333	11.13	0.3781	20.00	22.26	11	**
1,1,1-Trichloroethane	0.4475	6.84	0.4918	20.00	19.81	0.95	**
Carbon Tetrachloride	0.3745	7.05	0.4357	20.00	21.64	8.2	**
Vinyl Acetate	2.2698	5.39	2.3633	20.00	18.63	6.9	**
Bromodichloromethane	0.5015	8.95	0.5875	20.00	21.36	6.8	**
Dibromomethane	0.1835	8.75	0.2247	20.00	24.24	21	**
1,2-Dichloropropane	0.5834	8.56	0.6379	20.00	20.98	4.9C	20
cis-1,3-Dichloropropene	0.5437	9.54	0.6301	20.00	21.29	6.4	**
Trichloroethene	0.2732	8.25	0.3304	20.00	23.21	16	**
Benzene	1.4224	7.36	1.6071	20.00	21.95	9.7	**
Dibromochloromethane	0.3547	11.00	0.4147	20.00	21.62	8.1	**
2-Chloroethylvinylether	0.2209	9.34	0.2371	20.00	20.44	2.2	**
trans-1,3-Dichloropropene	0.4841	10.27	0.5441	20.00	20.65	3.2	**
1,1,2-Trichloroethane	0.2974	10.51	0.3411	20.00	21.56	7.8	**
1,3-Dichloropropane	0.6440	10.71	0.6973	20.00	21.75	8.7	**
Toluene-d8	0.9223	9.86	1.3992	30.00	29.87	0.43	**
Bromoform	0.2521	12.63	0.2809	20.00	20.99	4.9P	0.100
Chlorobenzene-d5		11.64	IS				
4-Methyl-2-Pentanone	0.5668	9.72	0.5347	20.00	16.94	15	**
2-Hexanone	0.4333	10.79	0.4051	20.00	17.13	14	**
Tetrachloroethene	0.2227	10.65	0.2687	20.00	24.38	22	**
1,1,2,2-Tetrachloroethane	0.5656	13.09	0.6354	20.00	21.98	9.9P	0.300
Toluene	0.7445	9.95	0.8813	20.00	22.77	14C	20
1,1,1,2-Tetrachloroethane	0.2686	11.77	0.3171	20.00	23.75	19	**
Chlorobenzene	0.8021	11.68	0.9598	20.00	23.62	18P	0.300
Ethylbenzene	0.3566	11.78	0.4502	20.00	22.81	14C	20
Bromofluorobenzene	0.2136	12.93	0.2125	30.00	30.49	1.6	**
Styrene	0.8784	12.37	1.0858	20.00	24.34	22	**
m&p-Xylenes	0.4590	11.91	0.5883	40.00	50.25	26	**
o-Xylene	0.4664	12.35	0.5944	20.00	24.97	25	**
1,3-Dichlorobenzene	0.5862	14.05	0.7166	20.00	23.75	19	**
1,4-Dichlorobenzene	0.5981	14.14	0.7162	20.00	23.01	15	**
1,2-Dichlorobenzene	0.5763	14.51	0.6878	20.00	23.03	15	**
Isopropylbenzene	0.9016	12.74	1.1198	20.00	24.66	23	**
1,2,3-Trichloropropane	0.6274	13.14	0.6572	20.00	21.45	7.2	**
4-Chlorotoluene	1.1668	13.29	1.4006	20.00	25.76	29	**
2-Chlorotoluene	1.1359	13.40	1.3333	20.00	24.33	22	**
n-Propylbenzene	1.5766	13.17	1.9511	20.00	24.81	24	**
Bromobenzene	0.9901	13.10	1.1239	20.00	23.34	17	**
1,3,5-Trimethylbenzene	0.9495	13.34	1.1283	20.00	23.55	18	**
t-Butylbenzene	0.7229	13.67	0.8709	20.00	25.34	27	**
1,2,4-Trimethylbenzene	1.0095	13.72	1.1999	20.00	23.42	17	**
sec-Butylbenzene	1.0043	13.89	1.2572	20.00	25.00	25	**
4-Isopropyltoluene	0.7995	14.03	1.0163	20.00	25.62	28	**
n-Butylbenzene	0.9222	14.42	1.1187	20.00	24.14	21	**
1,2-Dibromo-3-Chloropropane	0.0944	15.26	0.1052	20.00	22.81	14	**
Hexachlorobutadiene	0.1488	16.12	0.1389	20.00	19.00	5.0	**
1,2,4-Trichlorobenzene	0.3272	16.01	0.3567	20.00	23.01	15	**
1,2,3-Trichlorobenzene	0.3250	16.49	0.3195	20.00	20.77	3.8	**
Naphthalene	1.0588	16.25	1.0382	20.00	20.20	1.0	**
1,2-Dioxane		N/Q					

C - Continuing Calibration Check Compound
P - System Performance Check Compound
N/O or N/Q - Not applicable for this run
** - Failed the C or P Criteria*
*** - No limit specified in method*
IS - Internal Standard

Note: 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found.
8260/8270 limits are compared against the %DIFF/R.F.
524.2 limits are compared against the %DIFF

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fl4899.d

Lab Sample ID: CAL @ 20ppb

Date/Time Analyzed: 24 Sep 1998 15:23

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	88219	6.51	520976	7.90	530144	11.64						
Lower Limit:	44110	6.01	260488	7.40	265072	11.14						
Upper Limit:	176438	7.01	1041952	8.40	1060288	12.14						

Data File	*Sample Number*	*Date/Time Analyzed*	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
fl4896.d	CAL @ 500ppb	24 Sep 1998 14:05	98636	6.52	654216	7.91	596889	11.65						
fl4897.d	CAL @ 100ppb	24 Sep 1998 14:31	102245	6.52	601656	7.90	600871	11.64						
fl4898.d	CAL @ 50ppb	24 Sep 1998 14:57	93427	6.52	561740	7.90	561712	11.64						
fl4900.d	CAL @ 10ppb	24 Sep 1998 15:49	82835	6.51	494430	7.90	501707	11.64						
fl4901.d	CAL @ 5ppb	24 Sep 1998 16:15	83051	6.51	498390	7.90	502799	11.64						
fl4902.d	DAILY BLANK(MEO	24 Sep 1998 16:47	65571	6.49	357852	7.87	449730	11.64						
fl4902a.d	DAILY BLANK(MEO	24 Sep 1998 17:22	67458	6.49	434002	7.89	524823	11.63						
fl4903.d	MBS(MEOH)	24 Sep 1998 17:49	84223	6.49	560470	7.88	580701	11.64						
fl4904.d	AA72254(MS)	24 Sep 1998 18:14	93225	6.50	625214	7.89	655653	11.64						
fl4905.d	AA72254(MSD)	24 Sep 1998 18:40	99143	6.50	689895	7.89	693355	11.64						
fl4906.d	AA72258	24 Sep 1998 19:06	88047	6.50	572642	7.90	628709	11.64						
fl4907.d	AA72405	24 Sep 1998 19:32	115737	6.50	709553	7.89	728805	11.64						
fl4908.d	AA72254	24 Sep 1998 19:58	116711	6.50	776322	7.90	786963	11.65						
fl4909.d	AA72255	24 Sep 1998 20:24	121906	6.51	721111	7.90	740868	11.64						
fl4910.d	AA72403	24 Sep 1998 20:49	122310	6.50	806703	7.89	803749	11.64						
fl4911.d	AA72257	24 Sep 1998 21:15	127261	6.50	803938	7.89	867274	11.65						
fl4912.d	AA72253(1/10)	24 Sep 1998 21:44	124215	6.52	765171	7.90	755796	11.65						
fl4913.d	AA72404(1/10)	24 Sep 1998 22:13	123661	6.52	634091	7.90	636974	11.65						
fl4914.d	AA72252(1/50)	24 Sep 1998 22:41	119156	6.52	696102	7.90	699516	11.64						
fl4915.d	AA72256(1/50)	24 Sep 1998 23:10	120610	6.52	622445	7.90	653364	11.64						
fl4916.d	AA72401	24 Sep 1998 23:36	126534	6.52	688699	7.90	712132	11.64						
fl4917.d	AA72402	25 Sep 1998 00:01	119722	6.52	700936	7.90	706710	11.64						
fl4918.d	AA72400	25 Sep 1998 00:30	104839	6.51	591775	7.90	618102	11.64						
fl4919.d	AA71776	25 Sep 1998 00:56	93428	6.50	699454	7.89	784460	11.64						
fl4920.d	AA72660	25 Sep 1998 10:03	72065	6.50	394331	7.89	432789	11.63						
fl4921.d	AA72658	25 Sep 1998 10:29	101662	6.51	610975	7.89	609358	11.64						
fl4922.d	AA72659	25 Sep 1998 10:55	109734	6.52	648881	7.90	631540	11.65						
fl4923.d	AA72657	25 Sep 1998 11:21	106428	6.52	649768	7.90	646512	11.65						
fl4924.d	AA72661	25 Sep 1998 11:46	111460	6.51	693873	7.90	688383	11.65						
fl4925.d	AA72662	25 Sep 1998 12:12	109039	6.52	668869	7.89	651935	11.64						
fl4926.d	C3-B-5 (ECOSYS)	25 Sep 1998 12:38	107566	6.51	645983	7.90	614438	11.65						
fl4927.d	C3-N-9 (ECOSYS)	25 Sep 1998 13:04	100043	6.52	593525	7.91	554462	11.65						
fl4928.d	C3-S-10 (ECOSYS)	25 Sep 1998 13:30	92647	6.52	600909	7.89	546047	11.65						
fl4929.d	C3-W-9 (ECOSYS)	25 Sep 1998 13:56	102431	6.52	605340	7.90	575975	11.65						
fl4930.d	BLANK	25 Sep 1998 14:21	115303	6.52	659097	7.90	633143	11.65						

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

Lower Limit = - 50% of internal standard of daily cal from previous cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

Form8

INTERNAL STANDARD FORM 8260.

Evaluation Std Data File: fl4899.d

Lab Sample ID: CAL @ 20ppb

Date/Time Analyzed: 24 Sep 1998 15:23

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
aluation Std Areas/Retention Times:	88219	6.51	520976	7.90	530144	11.64						
Lower Limit:	44110	6.01	260488	7.40	265072	11.14						
Upper Limit:	176438	7.01	1041952	8.40	1060288	12.14						
File	*Sample Number*	*Date/Time Analyzed*										
9 .d	CAL @ 20ppb	25 Sep 1998 15:20	94273	6.52	556646	7.90	558065	11.64				
9..d	DAILY BLANK(MEO	25 Sep 1998 15:54	75354	6.51	445894	7.89	529088	11.65				
4.d	DAILY BLANK(MEO	25 Sep 1998 16:31	72618	6.50	441222	7.89	531683	11.64				
5.d	C3-W-9	25 Sep 1998 16:57	84110	6.51	536241	7.90	555460	11.65				
.d	C3-B-5	25 Sep 1998 17:23	101774	6.50	682740	7.89	682129	11.64				
9 d	C3-N-9	25 Sep 1998 17:49	103908	6.50	700555	7.89	683019	11.64				
9..d	AA72658	25 Sep 1998 18:15	103856	6.50	662743	7.88	660044	11.64				
9.d	AA72662	25 Sep 1998 18:41	95312	6.52	588153	7.89	559564	11.64				
0.d	AA72659	25 Sep 1998 19:07	111995	6.51	659099	7.90	603393	11.64				
d	AA72660	25 Sep 1998 19:32	109839	6.52	672813	7.89	622286	11.64				
9 d	AA72657	25 Sep 1998 19:58	117390	6.51	692777	7.90	659486	11.64				
9..d	AA72661	25 Sep 1998 20:24	111396	6.52	656217	7.89	627279	11.64				
4.d	C3-S-10	25 Sep 1998 20:50	113771	6.52	658240	7.90	622709	11.64				
5.d	BLANK	25 Sep 1998 21:16	115713	6.52	648058	7.89	617027	11.64				
d	BLANK	25 Sep 1998 21:42	110273	6.51	623513	7.89	573001	11.64				
9 d	EF1-1447(1/5)	25 Sep 1998 22:08	102434	6.51	593795	7.90	592543	11.63				
9 d	AA71531(1/5)	25 Sep 1998 22:34	106812	6.51	610984	7.90	616656	11.64				
9.d	AA72241(1/5)	25 Sep 1998 23:00	107976	6.51	625359	7.89	632908	11.64				
0.d	AA72242(1/5)	25 Sep 1998 23:26	108722	6.52	624722	7.89	620796	11.64				
d	AA72243(1/5)	25 Sep 1998 23:52	104976	6.51	597631	7.90	585530	11.64				
d	AA72244(1/5)	26 Sep 1998 00:18	102800	6.52	584706	7.89	577865	11.64				
d	AA72250(1/5)	26 Sep 1998 00:44	101543	6.51	582882	7.90	582831	11.64				
54.d	MBS(MEOH)	26 Sep 1998 1:10	110415	6.51	638539	7.90	597815	11.64				
5.d	C3-W-9(MS)	26 Sep 1998 1:36	96754	6.50	662394	7.89	645949	11.64				
d	C3-W-9(MSD)	26 Sep 1998 2:02	94969	6.50	657153	7.89	646148	11.64				
d	AA71878	26 Sep 1998 2:28	101451	6.49	654377	7.89	638996	11.64				
5 d	AA72204	26 Sep 1998 2:54	114043	6.52	646198	7.90	602415	11.64				
59.d	AA72205	26 Sep 1998 3:20	109856	6.52	620825	7.90	587879	11.64				
0.d	AA72377	26 Sep 1998 3:46	107071	6.52	600173	7.91	558962	11.64				
d	AA72580	26 Sep 1998 4:12	103084	6.52	577620	7.89	540230	11.64				
l	AA72581	26 Sep 1998 4:38	101419	6.51	581260	7.90	538071	11.64				
16 l	AA72615	26 Sep 1998 5:04	98217	6.52	561156	7.89	525774	11.64				
164.d	AA72626	26 Sep 1998 5:30	98992	6.51	565066	7.90	531193	11.64				
.d	AA72627	26 Sep 1998 13:47	81899	6.51	495606	7.89	500207	11.64				
.d	AA72688	26 Sep 1998 14:13	87855	6.52	510966	7.89	483319	11.64				
	AA72689	26 Sep 1998 14:39	96486	6.51	549956	7.89	518765	11.64				

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

imits:

Standard Areas

ie imit = + 100% of internal standard of daily cal from previous cal.

Limit = - 50% of internal standard of daily cal from previous cal.

on Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Hampton-Clarke, Inc.
veritech laboratories

175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

ECOSYSTEMS STRATEGIES

Format: NYDOH-R

Project: Middletown
PO Number: LM97145.40

Samples submitted on: 9/25/98

AA72690
AA72691
AA72692
AA72693

Date: 10/16/98
HCI Project: 09251149

TABLE OF CONTENTS

Veritech Sample Key

16-Oct-98

Lab#	SampleID
AA72690	C3-B-11.5
AA72691	C3-S-10
AA72692	C3-W-9
AA72693	C3-N-9

Veritech, 175 Route 46 West, Fairfield, NJ 07004
A Division of HAMPTON-CLARKE, Inc. NJDEPE #14622

CHAIN OF CUSTODY RECORD

PHONE (973) 244-9770
FAX (973) 244-9787

CUSTOMER INFORMATION

CUSTOMER: Ecosystems
ADDRESS: 60 Worrall Ave, Pok. NY 12603
TELEPHONE: 914-452-1658
PROJECT:
PROJECT MANAGER: Zywia Wojnar
PROJECT LOCATION: Middletown
STATE: NY
PO NUMBER: LM97145-40

REPORT INFORMATION

SEND REPORT TO: Zywia Wojnar
Ekosystems Strategies, Inc.
60 Worrall Ave
Poughkeepsie, NY 12603
SEND INVOICE TO: Johanna Kurtz

PROJECT INFORMATION

TURNAROUND (CONFIRM RUSH TAT'S WITH LAB) results
STANDARD ____ RUSH ✓ by 1PM
DELIVERABLES (PLEASE CIRCLE): fm 9/25
STANDARD ISRA BUST to
WASTE REGULATORY 914-485-708
OTHER (Specify) ____

ANALYTICAL REQUESTS

LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE (C)	SAMPLE TYPE: GRAB (G)	SAMPLE MATRIX	NO. OF BOTTLES: H2SO4	HNO3	HCL	NaOH	ZnAc + NaOH	Ascorbic	NONE	OTHER	ANALYSIS
AA72690	C3-B-11.5	9/24/98	1745		✓	S							1		8010 8260
72691	C3-S-10		1750		✓	S							1		
72692	C3-W-9		1755		✓	S							1		
72693	C3-N-9	✓	1815		✓	S							1		

SAMPLER CERTIFIES THAT EACH SAMPLE RECEIVED PROPER FIELD PRESERVATION (IF REQUIRED) (INITIALS) ____

SAMPLE HAZARDS: ☐ FLAMMABLE ☐ SKIN IRRITANT ☐ NON-HAZARD ☐ UNKNOWN ☐ NOXIOUS FUMES pot. hazardous

SPECIAL INSTRUCTIONS:

TEMPERATURE UPON RECEIPT:

		DATE/TIME			DATE/TIME
Relinquished by: Zywia Wojnar	Received by: FEDEX	9/24/98	18:45	9/24/98	1845
Agent of: Ecosystems Strategies	Agent of:				
Relinquished by: FEDEX	Received by: Robert Myszka	9/25/98	10:05	9/25/98	1005
Agent of:	Agent of: Veritech				

CONDITION UPON RECEIPT FORM

Veritech

Date Received: 9-25-98 Filed By: RM

Client: Ecosystems Project/Account:

YES	NO	INITIAL CONDITIONS
✓		[1] Is there a corresponding Chain of Custody included with the samples?
	✓	[2] Are the samples in a container such as a cooler or ice chest?
✓		[3] Are the custody seals intact? IF NO, please circle one of the following: missing broken N.A.
RT °C		[4] Please specify the temperature inside the container.

YES	NO	SAMPLE INFORMATION
	✓	[5] Are the samples properly refrigerated (where required)?
✓		[6] Are the samples within holding times for the parameters listed on the COC? If NO, list parameters and associated samples:
✓		[7] Are all of the sample bottles intact? If NO, specify sample numbers below: broken: leaking:
✓		[8] Are all of the sample labels or numbers legible? If NO, specify:
✓		[9] Do the contents of the container match the COC? If NO, specify:
✓		[10] Is there enough sample sent for the analyses listed on the COC? If NO, specify:
		[11] Are the samples preserved correctly (see Preservation Form for actual pH readings)?
		[12] Are all soil VO(NJ) samples properly preserved in methanol with the correct soil weights (8g - 12g) and accompanied by dry soil?

OTHER

[13] Specify:

NO.	ACTION	CORRECTIVE ACTIONS

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INTERNAL CHAIN OF CUSTODY RECORD FOR GC/MS

TEST	SAMPLE NO:	REMOVED FROM: RFRG	DATE	TIME	RETURNED TO*: RFRG	DATE	TIME	SIGNATURE
VO	72092, 093, 463, 085, 083	3	9/24/98	1000	3	9/24/98	1230	GC
	AA72091, 089, 080, 081, 462							
	AA72254, 258, 405, 255, 403							
	AA72257, 253, 404, 252, 256,							
	AA72401, 402, 400, 71776,							
	AA72660, 658, 659, 657, 661,							
	AA72662							
VO	AA72077, 075, 516, 517, 519,	3	9/24/98	1300				GC
	AA72520, 515, 518							
VO (*)	AA72492, 690, 693, 658, 662	3	9/25/98	1400	3	9/25/98	1500	GC
(*)	AA72659, 660, 657, 661, 691, 7188							
VO	EF1-1447, 71531, 72241,	3	9/25/98	1200				GC
	AA72242, 243, 244, 250,							
	AA72204, 205, 377, 580, 581							
	AA72615, 626, 627, 688, 689							
VO	AA71879, 72201, 202, 632	3	9/25/98	1100	3	9/25/98	1500	GC
	AA72633, 634, 680, 203, 488,							
	AA72631							
VO	AA72619, 620, 621, 622, 623, 624	3	9/26/98	1400				GC
	AA72625, 682, 617, 618, 684,							
	AA72685, 686, 687, 385, 579,							
	AA72681, 683, 614, 616, 393							
VO	AA71777, 778, 779, 780,	3	9/28/98	1100				GC
	AA72245, 377, 204, 205, 076,							
	AA72753, 759, 760, 761, ~~374~~, GC							
	~~AA72376~~, GC AA72730, 732							
	AA72731, 733, 734							
VO	AA72247, 413, 249, 203, 406, 631	3	9/28/98	1430				GC
	AA72378, 503, 505, 502, 507, 508							
	AA72374, 376, 502, 484, 483,							
	AA72482, 485, 71776, 72461,							
	AA72082, 090, 248, 246, 483, 484							
VO	AA72506, 082, 090, 247, 246,	3	9/29/98	1130	3	9/29/98	1315	GC
	AA72248, 461, 507, 631, 613,							
	AA72607, 608, 609, 610, 611,							
	AA72612, 707, 708, 709, 705,							
	AA72706, 704, 238							
VO	AA72577, 705, 702, 704	3	9/30/98	1200				GC

*Aqueous volatile samples are not logged back into the refrigerator after test.

GC 10/8/98

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INTERNAL CHAIN OF CUSTODY RECORD FOR GC/MS

		REMOVED FROM:			RETURNED TO*:			
TEST	SAMPLE NO:	RFRG	DATE	TIME	RFRG	DATE	TIME	SIGNATU
VO	AA72932, 73043, 72859, 871	3	10/5/98	1000				YC
↓	AA72754, 73077	↓	↓	↓				↓
VO	AA72833, 836, 876, 877, 878,	3	10/5/98	1100	3	10/5/98	1230	YC
↓	AA72879, 880, 881, 71746,	↓	↓	↓	↓	↓	↓	↓
	AA72715, 710, 711, 712, 713,							
	AA72714, 716, 73181, 182,							
↓	AA73129, 72936	↓	↓	↓	↓	↓	↓	↓
VO	AA72716, 876, 73182, 183, 185,	3	10/6/98	1000	3	10/6/98	1250	YC
↓	AA73186, 187, 184, 71746, 72866	↓	↓	↓	↓	↓	↓	↓
	AA72868, 882, 956, 73129,							
	AA72869, 870, 73195, 199,							
↓	AA ~~73197~~ 73200, 201	↓	↓	↓	↓	↓	↓	↓
VO	AA72915, 908, 909, 910, 911	3	10/6/98	1300	3	10/6/98	1400	YC
↓	AA72912, 913, 914, 73100,	↓	↓	↓	↓	↓	↓	↓
↓	AA73096, 099	↓	↓	↓	↓	↓	↓	↓
VO	EF1-1454, AA72828, 829,	3	10/6/98	1415				YC
↓	AA73077, 079, 089, 093, 117,	↓	↓	↓				↓
	AA73118, 072, 073, 074, 075,							
	AA73076, 078, 088, 092, 109,							
	AA73111, 112, 113, 114, 115,							
	AA73119, 189, 190, 191, 192,							
↓	AA73196, 197, 193, 194	↓	↓	↓				↓
VO	AA72691, 551, 548, 73152,	3	10/7/98	1100	3	10/7/98	1130	YC
↓	AA73154, 156, 082, 083, 084,	↓	↓	↓	↓	↓	↓	↓
↓	AA73085, 086 YC	↓	↓	↓	↓	↓	↓	↓
VO	AA72830, 831, ~~832~~ 939, 929,	3	10/7/98	1200				YC
↓	AA73155, 72921, 923, 925,	↓	↓	↓				↓
	AA72927, 73057, 077, 079,							
	AA73069, 093, 117, 115, 190,							
	AA73072, 075, 076, 078, 088,							
	AA73109, 112, 113, 114, 119, 189,							
	AA73192, 193, 194, 195, 110, 092,							
	AA73191, 111, 074, 115, 073,							
↓	AA73197, 196, 116	↓	↓	↓				↓
VO	AA73114, 156, 154, 152, 094,	3	10/5/98	1500	3	10/8/98	1600	YC
↓	AA73100, 108, 173, 096, 099,	↓	↓	↓	↓	↓	↓	↓
↓	AA73105, 106, 107, 167, 169	↓	↓	↓	↓	↓	↓	↓
VO	AA72840, 841, 842, 843, 844, 845	3	10/3/98	1000				YC
↓	AA73155, 326, 332, 078, 377	↓	↓	↓				↓
	AA73375, 374, 375, 372, 376, 373							
↓	AA73371, 119, 111, 116	↓	↓	↓				↓

*Aqueous volatile samples are not logged back into the refrigerator after test.

INTERNAL CHAIN OF CUSTODY RECORD - REFRIGERATOR #12

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Client ID: ECO Systems

Location: C5

COMMENTS

		REMOVED:				RETURNED:			
TEST	SAMPLE No.	DATE	TIME	SIGNATURE	ALTERNATE	DATE	TIME	SIGNATURE	ALTERNATE
% solid	72690 -693	9/25	0900			9/25	1000		

900000

FOR LOGIN BATCH

AA72690-93

Laboratory Chronicle

veritech

Lab Number	Sample Description
AA72690	C3-B-11.5

% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
Bromoform				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260
Chloroform				9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
1,1-Dichloroethane				9/25/98	GVC	EPA 8260
1,1-Dichloroethene				9/25/98	GVC	EPA 8260
Trichlorofluoromethane				9/25/98	GVC	EPA 8260
Methylene Chloride				9/25/98	GVC	EPA 8260
Chloroethane				9/25/98	GVC	EPA 8260
Vinyl Chloride				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260

Lab Number	Sample Description
AA72691	C3-S-10

% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
Bromodichloromethane				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
Bromoform				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260

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Chloroform	9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	9/25/98	GVC	EPA 8260
1,1-Dichloroethane	9/25/98	GVC	EPA 8260
1,1-Dichloroethene	9/25/98	GVC	EPA 8260
Trichlorofluoromethane	9/25/98	GVC	EPA 8260
Methylene Chloride	9/25/98	GVC	EPA 8260
Chloroethane	9/25/98	GVC	EPA 8260
Vinyl Chloride	9/25/98	GVC	EPA 8260
Bromomethane	9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene	9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene	9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene	9/25/98	GVC	EPA 8260

Lab Number AA72692 **Sample Description** C3-W-9

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Bromoform				9/25/98	GVC	EPA 8260
Trichloroethene				9/25/98	GVC	EPA 8260
Dibromochloromethane				9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane				9/25/98	GVC	EPA 8260
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
2-Chloroethylvinylether				9/25/98	GVC	EPA 8260
Bromodichloromethane				9/25/98	GVC	EPA 8260
Tetrachloroethene				9/25/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
Carbon Tetrachloride				9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane				9/25/98	GVC	EPA 8260
1,2-Dichloroethane				9/25/98	GVC	EPA 8260
Chloroform				9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				9/25/98	GVC	EPA 8260
1,1-Dichloroethane				9/25/98	GVC	EPA 8260
1,1-Dichloroethene				9/25/98	GVC	EPA 8260
Trichlorofluoromethane				9/25/98	GVC	EPA 8260
Methylene Chloride				9/25/98	GVC	EPA 8260
Chloroethane				9/25/98	GVC	EPA 8260
Vinyl Chloride				9/25/98	GVC	EPA 8260
Bromomethane				9/25/98	GVC	EPA 8260
Chloromethane				9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				9/25/98	GVC	EPA 8260

Lab Number AA72693 **Sample Description** C3-N-9

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				9/25/98	JL	SM 2540G

Volatile Organics (Stars List) 8260	Preparation Date	By	Method	Analysis Date	By	Method
1,2-Dichloropropane				9/25/98	GVC	EPA 8260
1,4-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,2-Dichlorobenzene				9/25/98	GVC	EPA 8260
1,3-Dichlorobenzene				9/25/98	GVC	EPA 8260
Chlorobenzene				9/25/98	GVC	EPA 8260

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1,1,2,2-Tetrachloroethane	9/25/98	GVC	EPA 8260
Tetrachloroethene	9/25/98	GVC	EPA 8260
Bromoform	9/25/98	GVC	EPA 8260
2-Chloroethylvinylether	9/25/98	GVC	EPA 8260
Trans-1,3-Dichloropropene	9/25/98	GVC	EPA 8260
1,1,2-Trichloroethane	9/25/98	GVC	EPA 8260
Dibromochloromethane	9/25/98	GVC	EPA 8260
Chloromethane	9/25/98	GVC	EPA 8260
Cis-1,3-Dichloropropene	9/25/98	GVC	EPA 8260
Bromodichloromethane	9/25/98	GVC	EPA 8260
Carbon Tetrachloride	9/25/98	GVC	EPA 8260
1,1,1-Trichloroethane	9/25/98	GVC	EPA 8260
1,2-Dichloroethane	9/25/98	GVC	EPA 8260
Chloroform	9/25/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	9/25/98	GVC	EPA 8260
1,1-Dichloroethane	9/25/98	GVC	EPA 8260
1,1-Dichloroethene	9/25/98	GVC	EPA 8260
Trichlorofluoromethane	9/25/98	GVC	EPA 8260
Methylene Chloride	9/25/98	GVC	EPA 8260
Chloroethane	9/25/98	GVC	EPA 8260
Vinyl Chloride	9/25/98	GVC	EPA 8260
Bromomethane	9/25/98	GVC	EPA 8260
Cis-1,2-Dichloroethene	9/25/98	GVC	EPA 8260
Trichloroethene	9/25/98	GVC	EPA 8260

Nonconformance Summary

As requested sample AA72691 was analyzed twice to confirm the concentration of tetrachloroethene. Both results are submitted in the package, however only the original run on September 25, 1998 appears on the chronicle, report of analysis and the disk.

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

METHOD 8260

	NO	YES
1. GC/MS Tune Specifications a. BFB passed	___	_X_
2. GC/MS Tuning Frequency - performed every 12 hours	___	_X_
3. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hours before sample analysis.	___	_X_
4. GC/MS Calibration Requirements a. Calibration Check Compounds	___	_X_
b. System Performance Check Compounds	___	_X_
5. Blank Contamination - List compounds for each fraction a. VOA Fraction (see form1.)_____		
6. Surrogate Recoveries Meet Criteria (If not met; list those compounds and their recoveries which fall outside the acceptable range) a. VOA Fraction See note below (if applicable)._____	___	_X_
7. Extraction Holding Time Met	___	_X_
Comments:		
8. Analysis Holding Time Met	___	_X_
Comments:		

Additional Comments:

Organics Director _____ Date: 10/8/98_

METHOD REFERENCES

Test Methods for Evaluating Solid Waste, SW-846, Third Edition
Chloride: Method 9253.
Cyanide: Method 9010B/9014.
Dioxins/Furans: Method 8290.
Flashpoint: Method 1010.
Fingerprint (GC): Methods (3510C or 3550B)/8015 modified.
Hexavalent Chromium: Second and Third Editions, Methods 3060 and 7196A.
Ignitability: Method 1030.
Metals: Methods (3005A or 3050B)/6010B, (7470A or 7471A) (Hg).
PCB's: Methods (3510C or 3550B)/8082.
PCB's (Oils): Methods 3580A/8082.
Pesticides: Methods (3510C or 3550B)/8081A.
pH (Soils): Method 9045C.
Phenolics (Soils): Method 9065.
Reactive Cyanide/Sulfide: Chapter Seven, Section 7.3, Reactivity.
Semivolatile Organics: Methods (3510C or 3550B)/8270C.
Sulfide: Method 9030B/9034.
TCLP: Extraction: Method 1311.
TCLP Volatile Organics: Method 8260B.
TCLP Semivolatile Organics: Methods 3510C/8270C.
TCLP Pesticides: Methods 3510C/8081A.
TCLP Herbicides: Method 8151A.
TCLP Metals: Methods 3005A/6010B and 7470A.
TPH: Method 9071A (extraction only)/418.1.
TPH Extractables: Methods (3510C or 3550B)/8015 modified.
Volatile Organics: Method 8260B.

Federal Register, 40 CFR Part 136
Volatile Organics: Method 624.
Semivolatile Organics: Method 625.
Pesticides/PCB's: Method 608.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039
Chlorinated Herbicides: Method 515.1/515.2.
Volatile Organics: Method 524.2, Revision 3, 1989.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
Cyanide (Free): Method 4500-CN-I.
Hexavalent Chromium: Method 3500-Cr D.
Salinity: Method 2520-B
Solids, Total, Fixed, & Volatile: Method 2540-G.

Methods for the Determination of Metals in Environmental Samples, EPA/600/4-91/010, June 1991
ICP Metals: Method 200.7, Revision 3.3.
GFAA Metals: Method 200.9.

Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983
Cyanide & Amenable Cyanide: Method 335.2/335.1.
Phenols: Method 420.1.
Mercury: Method 245.1.
pH Hydrogen Ion: Method 150.1/150.2.
Temperature, Deg. C: 170.1.
TPH (Soils & Waters): Method 418.1 (analysis 418.1 for Soils).
Specific Conductance: Method 120.1.
Residue, Filterable (TDS): Method 160.1.
Residue, Non-Filterable (TSS): Method 160.2.
Residue, Total: Method 160.3.
Residue, Volatile: Method 160.4.
Chloride: Method 325.3.
Sulfide (Waters): Method 376.1.
Oil & Grease (Total Recoverable): Method 413.1.
Oil & Grease: Method 1664.
Acidity (as CaCO3): Method 305.1.
Alkalinity (as CaCO3): Method 310.1.

American Society for Testing & Materials (ASTM), June 1991
TOX (Waters & Soils): Method D2361-91.

Hach Chemical Company Handbook
Chemical Oxygen Demand (Waters): Method 8000.

CT #: PH-0671
MA #: NJ386
NJ #: 14622
NY #: 11408
PA #: 68-463

Report Of Analysis
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To: ECOSYSTEMS STRATEGIES
60 WORRALL AVE.
POUGHKEEPSIE NY 12603

Attention: Zywia Wojnar
Project: Middletown

Date Collected: 9/24/98
Date Submitted: 9/25/98
Date Reported: 10/16/98

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72690	C3-B-11.5					
		% Solids SM2540G				
			% Solids	Percent		91
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	690	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	690	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	690	ND
			1,1-Dichloroethane	ug/Kg(PPB)	690	ND
			1,1-Dichloroethene	ug/Kg(PPB)	690	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	690	ND
			1,2-Dichloroethane	ug/Kg(PPB)	690	ND
			1,2-Dichloropropane	ug/Kg(PPB)	690	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	690	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	690	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	690	ND
			Bromodichloromethane	ug/Kg(PPB)	690	ND
			Bromoform	ug/Kg(PPB)	690	ND
			Bromomethane	ug/Kg(PPB)	690	ND
			Carbon Tetrachloride	ug/Kg(PPB)	690	ND
			Chlorobenzene	ug/Kg(PPB)	690	ND
			Chloroethane	ug/Kg(PPB)	690	ND
			Chloroform	ug/Kg(PPB)	690	ND
			Chloromethane	ug/Kg(PPB)	690	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	690	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	690	ND
			Dibromochloromethane	ug/Kg(PPB)	690	ND
			Methylene Chloride	ug/Kg(PPB)	690	ND
			Tetrachloroethene	ug/Kg(PPB)	690	16000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	690	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	690	ND
			Trichloroethene	ug/Kg(PPB)	690	ND
			Trichlorofluoromethane	ug/Kg(PPB)	690	ND
			Vinyl Chloride	ug/Kg(PPB)	690	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72691	C3-S-10					
		% Solids SM2540G				
			% Solids	Percent		88
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	140000	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	140000	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	140000	ND
			1,1-Dichloroethane	ug/Kg(PPB)	140000	ND
			1,1-Dichloroethene	ug/Kg(PPB)	140000	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	140000	ND
			1,2-Dichloroethane	ug/Kg(PPB)	140000	ND
			1,2-Dichloropropane	ug/Kg(PPB)	140000	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	140000	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	140000	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	140000	ND
			Bromodichloromethane	ug/Kg(PPB)	140000	ND
			Bromoform	ug/Kg(PPB)	140000	ND
			Bromomethane	ug/Kg(PPB)	140000	ND
			Carbon Tetrachloride	ug/Kg(PPB)	140000	ND
			Chlorobenzene	ug/Kg(PPB)	140000	ND
			Chloroethane	ug/Kg(PPB)	140000	ND
			Chloroform	ug/Kg(PPB)	140000	ND
			Chloromethane	ug/Kg(PPB)	140000	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	140000	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	140000	ND
			Dibromochloromethane	ug/Kg(PPB)	140000	ND
			Methylene Chloride	ug/Kg(PPB)	140000	ND
			Tetrachloroethene	ug/Kg(PPB)	140000	9300000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	140000	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	140000	ND
			Trichloroethene	ug/Kg(PPB)	140000	ND
			Trichlorofluoromethane	ug/Kg(PPB)	140000	ND
			Vinyl Chloride	ug/Kg(PPB)	140000	ND
AA72692	C3-W-9					
		% Solids SM2540G				
			% Solids	Percent		89
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	700	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	700	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	700	ND
			1,1-Dichloroethane	ug/Kg(PPB)	700	ND
			1,1-Dichloroethene	ug/Kg(PPB)	700	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	700	ND
			1,2-Dichloroethane	ug/Kg(PPB)	700	ND
			1,2-Dichloropropane	ug/Kg(PPB)	700	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	700	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	700	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	700	ND
			Bromodichloromethane	ug/Kg(PPB)	700	ND
			Bromoform	ug/Kg(PPB)	700	ND
			Bromomethane	ug/Kg(PPB)	700	ND
			Carbon Tetrachloride	ug/Kg(PPB)	700	ND
			Chlorobenzene	ug/Kg(PPB)	700	ND
			Chloroethane	ug/Kg(PPB)	700	ND
			Chloroform	ug/Kg(PPB)	700	ND
			Chloromethane	ug/Kg(PPB)	700	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	700	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	700	ND
			Dibromochloromethane	ug/Kg(PPB)	700	ND
			Methylene Chloride	ug/Kg(PPB)	700	ND
			Tetrachloroethene	ug/Kg(PPB)	700	1500
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	700	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	700	ND
			Trichloroethene	ug/Kg(PPB)	700	ND
			Trichlorofluoromethane	ug/Kg(PPB)	700	ND
			Vinyl Chloride	ug/Kg(PPB)	700	ND

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA72693	C3-N-9					
		% Solids SM2540G				
			% Solids	Percent		87
		Volatile Organics (Stars List) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	720	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	720	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	720	ND
			1,1-Dichloroethane	ug/Kg(PPB)	720	ND
			1,1-Dichloroethene	ug/Kg(PPB)	720	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	720	ND
			1,2-Dichloroethane	ug/Kg(PPB)	720	ND
			1,2-Dichloropropane	ug/Kg(PPB)	720	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	720	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	720	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	720	ND
			Bromodichloromethane	ug/Kg(PPB)	720	ND
			Bromoform	ug/Kg(PPB)	720	ND
			Bromomethane	ug/Kg(PPB)	720	ND
			Carbon Tetrachloride	ug/Kg(PPB)	720	ND
			Chlorobenzene	ug/Kg(PPB)	720	ND
			Chloroethane	ug/Kg(PPB)	720	ND
			Chloroform	ug/Kg(PPB)	720	ND
			Chloromethane	ug/Kg(PPB)	720	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	720	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	720	ND
			Dibromochloromethane	ug/Kg(PPB)	720	ND
			Methylene Chloride	ug/Kg(PPB)	720	ND
			Tetrachloroethene	ug/Kg(PPB)	720	5600
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	720	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	720	ND
			Trichloroethene	ug/Kg(PPB)	720	ND
			Trichlorofluoromethane	ug/Kg(PPB)	720	ND
			Vinyl Chloride	ug/Kg(PPB)	720	ND

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Jetter - Quality Assurance Director

Or

Stanley Gilewicz - Laboratory Director

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK(ME
Matrix: Soil
Client Id:
Initial Volume: 5ml
Data File: fl4934
Final Volume: NA
Date Analyzed: 25 Sep 1998 16:31
Dilution Factor: 125
Date Received/Extracted:
Percent Solids: 100
Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	630	U
79345	1,1,2,2-Tetrachloroethane	630	U
79005	1,1,2-Trichloroethane	630	U
75343	1,1-Dichloroethane	630	U
75354	1,1-Dichloroethene	630	U
95501	1,2-Dichlorobenzene	630	U
107062	1,2-Dichloroethane	630	U
78875	1,2-Dichloropropane	630	U
541731	1,3-Dichlorobenzene	630	U
106467	1,4-Dichlorobenzene	630	U
110758	2-Chloroethylvinylether	630	U
75274	Bromodichloromethane	630	U
75252	Bromoform	630	U
74839	Bromomethane	630	U
56235	Carbon Tetrachloride	630	U
108907	Chlorobenzene	630	U
75003	Chloroethane	630	U
67663	Chloroform	630	U
74873	Chloromethane	630	U
156592	Cis-1,2-Dichloroethene	630	U
10061015	Cis-1,3-Dichloropropene	630	U
124481	Dibromochloromethane	630	U
75092	Methylene Chloride	630	U
127184	Tetrachloroethene	630	U
156605	Trans-1,2-Dichloroethene	630	U
10061026	Trans-1,3-Dichloropropene	630	U
79016	Trichloroethene	630	U
75694	Trichlorofluoromethane	630	U
75014	Vinyl Chloride	630	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105428.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4934.D Vial: 4
Acq On : 25 Sep 1998 16:31 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_3
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 13:28 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 15:42:32 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.50	128	72618	30.00	ug/l	-0.01
25) 1,4-Difluorobenzene	7.89	114	441222	30.00	ug/l	-0.01
44) Chlorobenzene-d5	11.64	117	531683	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	38777	33.74	ug/l	0.00
Spiked Amount 30.000			Recovery =	112.47%		
42) Toluene-d8	9.86	98	602820	29.17	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.23%		
53) Bromofluorobenzene	12.93	176	124448	33.58	ug/l	0.00
Spiked Amount 30.000			Recovery =	111.93%		

Target Compounds Qvalue

10-9-98

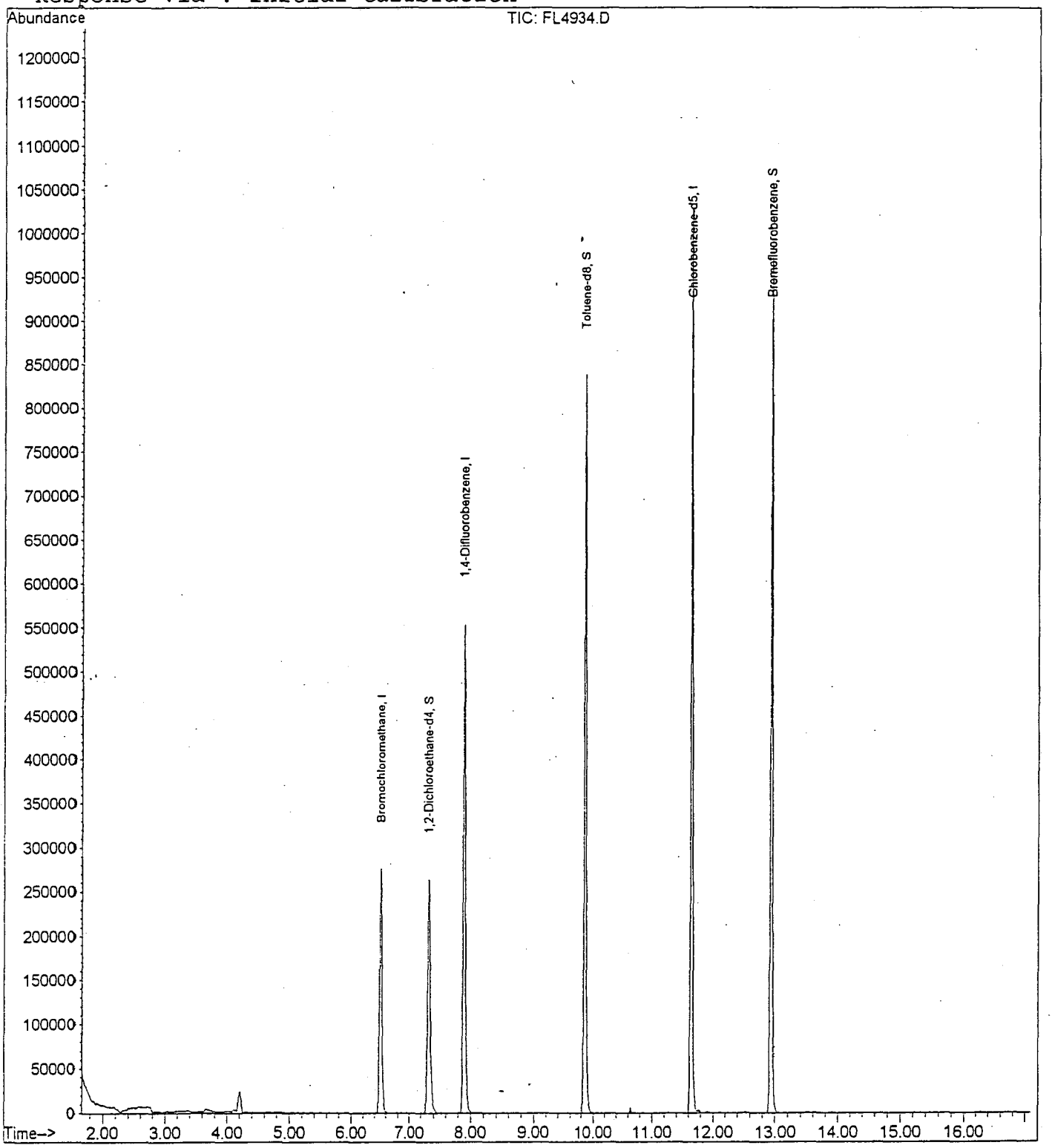
(#) = qualifier out of range (m) = manual integration

000017

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4934.D Vial: 4
Acq On : 25 Sep 1998 16:31 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_3
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 1 13:28 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK(ME
Client Id:
Data File: fm0210
Date Analyzed: 7 Oct 1998 14:42
Date Received/Extracted:

Matrix: Soil
Initial Volume: 5ml
Final Volume: NA
Dilution Factor: 125
Percent Solids: 100

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	630	U
79345	1,1,2,2-Tetrachloroethane	630	U
79005	1,1,2-Trichloroethane	630	U
75343	1,1-Dichloroethane	630	U
75354	1,1-Dichloroethene	630	U
95501	1,2-Dichlorobenzene	630	U
107062	1,2-Dichloroethane	630	U
78875	1,2-Dichloropropane	630	U
541731	1,3-Dichlorobenzene	630	U
106467	1,4-Dichlorobenzene	630	U
110758	2-Chloroethylvinylether	630	U
75274	Bromodichloromethane	630	U
75252	Bromoform	630	U
74839	Bromomethane	630	U
56235	Carbon Tetrachloride	630	U
108907	Chlorobenzene	630	U
75003	Chloroethane	630	U
67663	Chloroform	630	U
74873	Chloromethane	630	U
156592	Cis-1,2-Dichloroethene	630	U
10061015	Cis-1,3-Dichloropropene	630	U
124481	Dibromochloromethane	630	U
75092	Methylene Chloride	630	U
127184	Tetrachloroethene	630	U
156605	Trans-1,2-Dichloroethene	630	U
10061026	Trans-1,3-Dichloropropene	630	U
79016	Trichloroethene	630	U
75694	Trichlorofluoromethane	630	U
75014	Vinyl Chloride	630	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\43730.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-07-98\FM0210.D Vial: 6
Acq On : 7 Oct 1998 14:42 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_1
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 8 8:38 1998 Quant Results File: MH01004.RES

Quant Method : G:\GCMSDATA\METHODS\MH01004.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Oct 05 08:36:32 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.31	128	211695	30.00	ug/l	-0.02
24) 1,4-Difluorobenzene	9.46	114	1019085	30.00	ug/l	-0.02
42) Chlorobenzene-d5	12.96	117	919876	30.00	ug/l	-0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.02	102	89936	28.75	ug/l	-0.02
Spiked Amount 30.000			Recovery =	95.83%		
47) Toluene-d8	11.32	100	231424	29.37	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.90%		
52) Bromofluorobenzene	14.14	174	477960	30.95	ug/l	-0.02
Spiked Amount 30.000			Recovery =	103.17%		

Target Compounds Qvalue

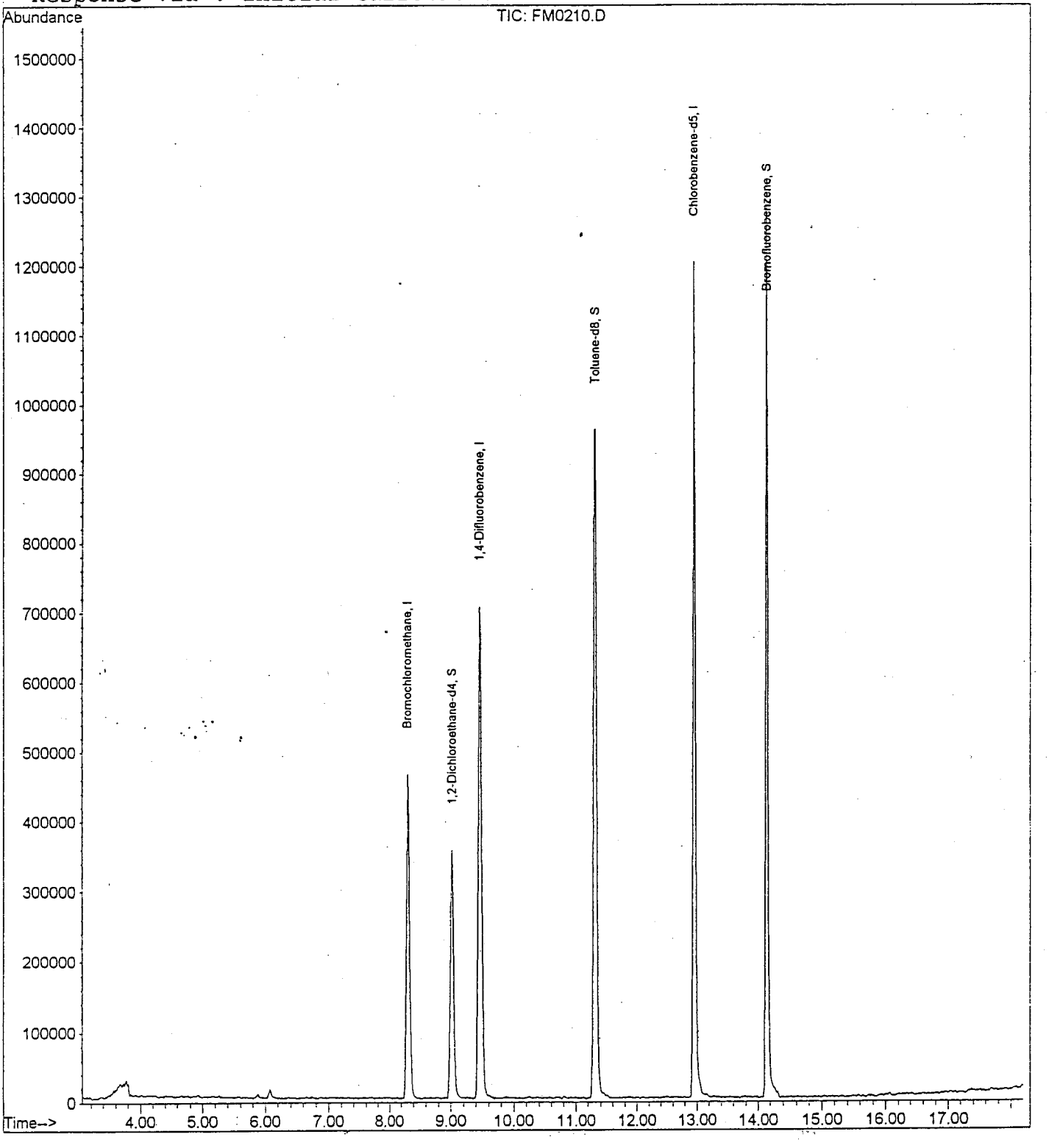
(#) = qualifier out of range (m) = manual integration

000020

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-07-98\FM0210.D Vial: 6
Acq On : 7 Oct 1998 14:42 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_1
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 8 8:38 1998 Quant Results File: MH01004.RES

Method : G:\GCMSDATA\METHODS\MH01004.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Oct 05 08:36:32 1998
Response via : Initial Calibration



000021

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72690 | *Matrix:* Soil

Client Id: C3-B-11.5 | *Initial Volume:* 5ml

Data File: fl4936 | *Final Volume:* NA

Date Analyzed: 25 Sep 1998 17:23 | *Dilution Factor:* 125

Date Received/Extracted: 9/25/98-NA | *Percent Solids:* 91

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	690	U
79345	1,1,2,2-Tetrachloroethane	690	U
79005	1,1,2-Trichloroethane	690	U
75343	1,1-Dichloroethane	690	U
75354	1,1-Dichloroethene	690	U
95501	1,2-Dichlorobenzene	690	U
107062	1,2-Dichloroethane	690	U
78875	1,2-Dichloropropane	690	U
541731	1,3-Dichlorobenzene	690	U
106467	1,4-Dichlorobenzene	690	U
110758	2-Chloroethylvinylether	690	U
75274	Bromodichloromethane	690	U
75252	Bromoform	690	U
74839	Bromomethane	690	U
56235	Carbon Tetrachloride	690	U
108907	Chlorobenzene	690	U
75003	Chloroethane	690	U
67663	Chloroform	690	U
74873	Chloromethane	690	U
156592	Cis-1,2-Dichloroethene	690	U
10061015	Cis-1,3-Dichloropropene	690	U
124481	Dibromochloromethane	690	U
75092	Methylene Chloride	690	U
127184	Tetrachloroethene	690	16000
156605	Trans-1,2-Dichloroethene	690	U
10061026	Trans-1,3-Dichloropropene	690	U
79016	Trichloroethene	690	U
75694	Trichlorofluoromethane	690	U
75014	Vinyl Chloride	690	U

Total Target Concentration 16000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105428.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4936.D Vial: 6
Acq On : 25 Sep 1998 17:23 Operator: GVC
Sample : AA72690 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 11:05 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.50	128	101774	30.00	ug/l	-0.02
25) 1,4-Difluorobenzene	7.89	114	682740	30.00	ug/l	-0.02
44) Chlorobenzene-d5	11.64	117	682129	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.31	102	50752	31.51	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.03%			
42) Toluene-d8	9.86	98	874100	27.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.10%			
53) Bromofluorobenzene	12.93	176	150144	31.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.27%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.63	164	562440	116.74	ug/l	100

10-2-98

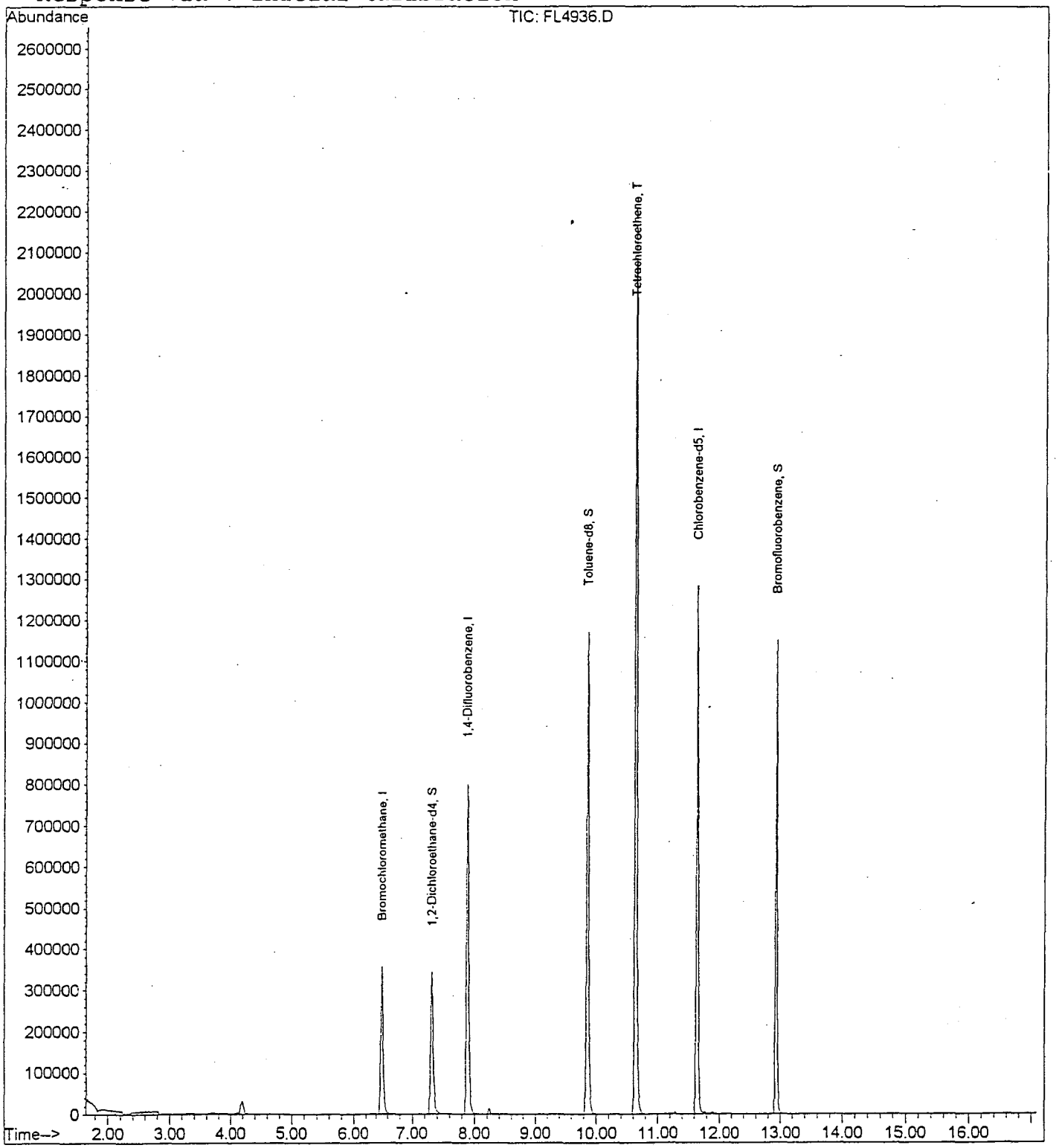
(#) = qualifier out of range (m) = manual integration

000023

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4936.D Vial: 6
Acq On : 25 Sep 1998 17:23 Operator: GVC
Sample : AA72690 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 11:05 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000024

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72691 *Matrix:* Soil

Client Id: C3-S-10 *Initial Volume:* 5ml

Data File: fl4944 *Final Volume:* NA

Date Analyzed: 25 Sep 1998 20:50 *Dilution Factor:* 25000

Date Received/Extracted: 9/25/98-NA *Percent Solids:* 88

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	140000	U
79345	1,1,2,2-Tetrachloroethane	140000	U
79005	1,1,2-Trichloroethane	140000	U
75343	1,1-Dichloroethane	140000	U
75354	1,1-Dichloroethene	140000	U
95501	1,2-Dichlorobenzene	140000	U
107062	1,2-Dichloroethane	140000	U
78875	1,2-Dichloropropane	140000	U
541731	1,3-Dichlorobenzene	140000	U
106467	1,4-Dichlorobenzene	140000	U
110758	2-Chloroethylvinylether	140000	U
75274	Bromodichloromethane	140000	U
75252	Bromoform	140000	U
74839	Bromomethane	140000	U
56235	Carbon Tetrachloride	140000	U
108907	Chlorobenzene	140000	U
75003	Chloroethane	140000	U
67663	Chloroform	140000	U
74873	Chloromethane	140000	U
156592	Cis-1,2-Dichloroethene	140000	U
10061015	Cis-1,3-Dichloropropene	140000	U
124481	Dibromochloromethane	140000	U
75092	Methylene Chloride	140000	U
127184	Tetrachloroethene	140000	9300000
156605	Trans-1,2-Dichloroethene	140000	U
10061026	Trans-1,3-Dichloropropene	140000	U
79016	Trichloroethene	140000	U
75694	Trichlorofluoromethane	140000	U
75014	Vinyl Chloride	140000	U

Total Target Concentration 9300000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105428.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4944.D Vial: 14
Acq On : 25 Sep 1998 20:50 Operator: GVC
Sample : AA72691 Inst : GCMS_3
Misc : M,4g/10mL--4uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:27 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.52	128	113771	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.90	114	658240	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.64	117	622709	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	50702	28.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.87%			
42) Toluene-d8	9.87	98	875056	28.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.60%			
53) Bromofluorobenzene	12.93	176	121104	27.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.00%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	1445155	328.57	ug/l	99

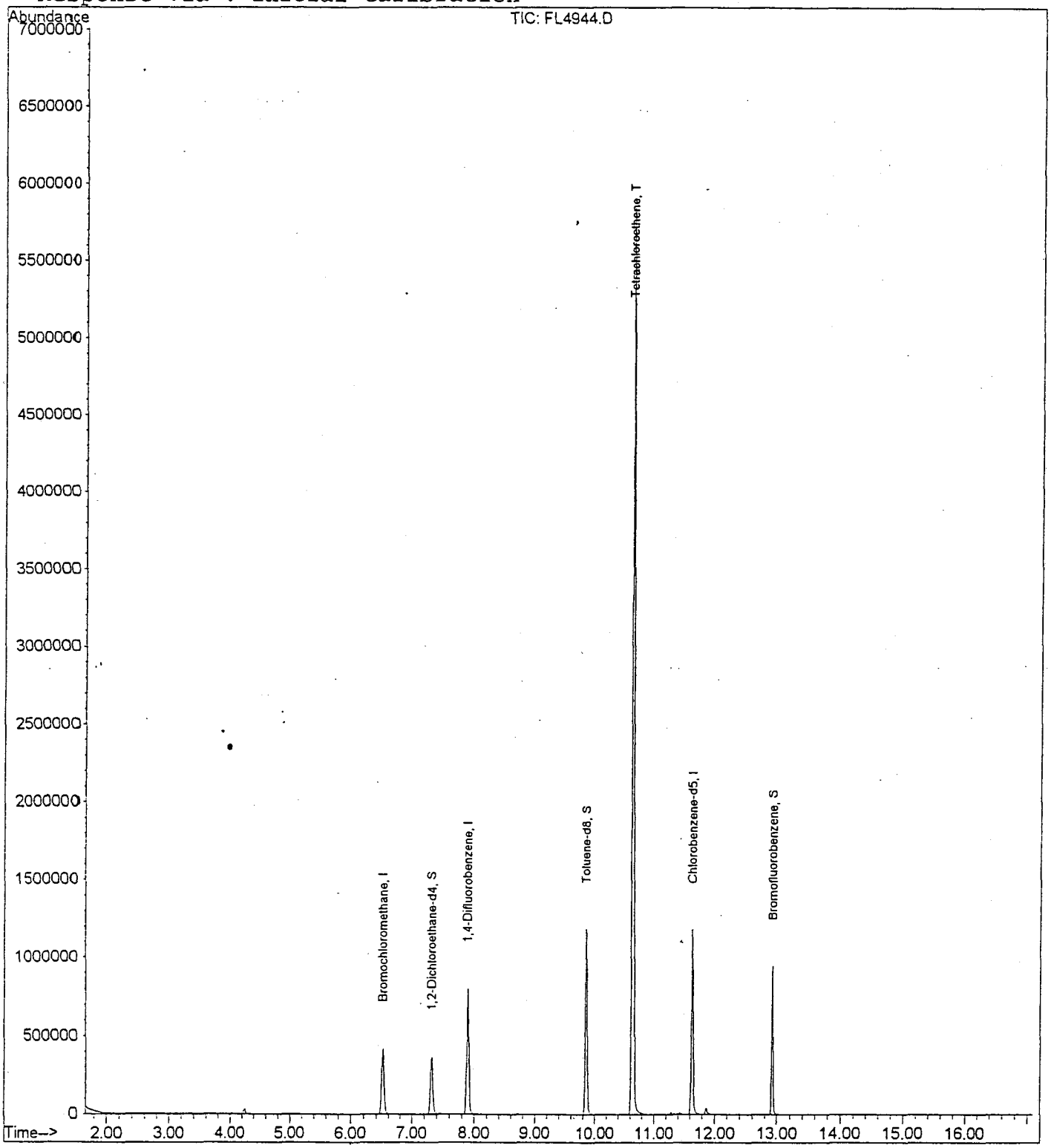
10-2 GK

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4944.D Vial: 14
Acq On : 25 Sep 1998 20:50 Operator: GVC
Sample : AA72691 Inst : GCMS_3
Misc : M,4g/10mL--4uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:27 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000027

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72691(1/400) | *Matrix:* Soil

Client Id: C3-S-10 | *Initial Volume:* 5ml

Data File: fm0216b | *Final Volume:* NA

Date Analyzed: 7 Oct 1998 19:55 | *Dilution Factor:* 50000

Date Received/Extracted: 9/25/98-NA | *Percent Solids:* 88

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	280000	U
79345	1,1,2,2-Tetrachloroethane	280000	U
79005	1,1,2-Trichloroethane	280000	U
75343	1,1-Dichloroethane	280000	U
75354	1,1-Dichloroethene	280000	U
95501	1,2-Dichlorobenzene	280000	U
107062	1,2-Dichloroethane	280000	U
78875	1,2-Dichloropropane	280000	U
541731	1,3-Dichlorobenzene	280000	U
106467	1,4-Dichlorobenzene	280000	U
110758	2-Chloroethylvinylether	280000	U
75274	Bromodichloromethane	280000	U
75252	Bromoform	280000	U
74839	Bromomethane	280000	U
56235	Carbon Tetrachloride	280000	U
108907	Chlorobenzene	280000	U
75003	Chloroethane	280000	U
67663	Chloroform	280000	U
74873	Chloromethane	280000	U
156592	Cis-1,2-Dichloroethene	280000	U
10061015	Cis-1,3-Dichloropropene	280000	U
124481	Dibromochloromethane	280000	U
75092	Methylene Chloride	280000	U
127184	Tetrachloroethene	280000	12000000
156605	Trans-1,2-Dichloroethene	280000	U
10061026	Trans-1,3-Dichloropropene	280000	U
79016	Trichloroethene	280000	U
75694	Trichlorofluoromethane	280000	U
75014	Vinyl Chloride	280000	U

Total Target Concentration 12000000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\43730.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-07-98\FM0216B.D Vial: 14
Acq On : 7 Oct 1998 19:55 Operator: GVC
Sample : AA72691(1/400) Inst : GCMS_1
Misc : M,2uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 8 8:41 1998 Quant Results File: MH01004.RES

Quant Method : G:\GCMSDATA\METHODS\MH01004.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Oct 05 08:36:32 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.35	128	214298	30.00	ug/l	0.02
24) 1,4-Difluorobenzene	9.50	114	980902	30.00	ug/l	0.02
42) Chlorobenzene-d5	12.99	117	918377	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.06	102	89626	28.31	ug/l	0.02
Spiked Amount 30.000			Recovery =	94.37%		
47) Toluene-d8	11.34	100	231232	29.40	ug/l	0.02
Spiked Amount 30.000			Recovery =	98.00%		
52) Bromofluorobenzene	14.17	174	461653	29.94	ug/l	0.02
Spiked Amount 30.000			Recovery =	99.80%		
Target Compounds						Qvalue
45) Tetrachloroethene	12.14	164	1892948	204.82	ug/l	99

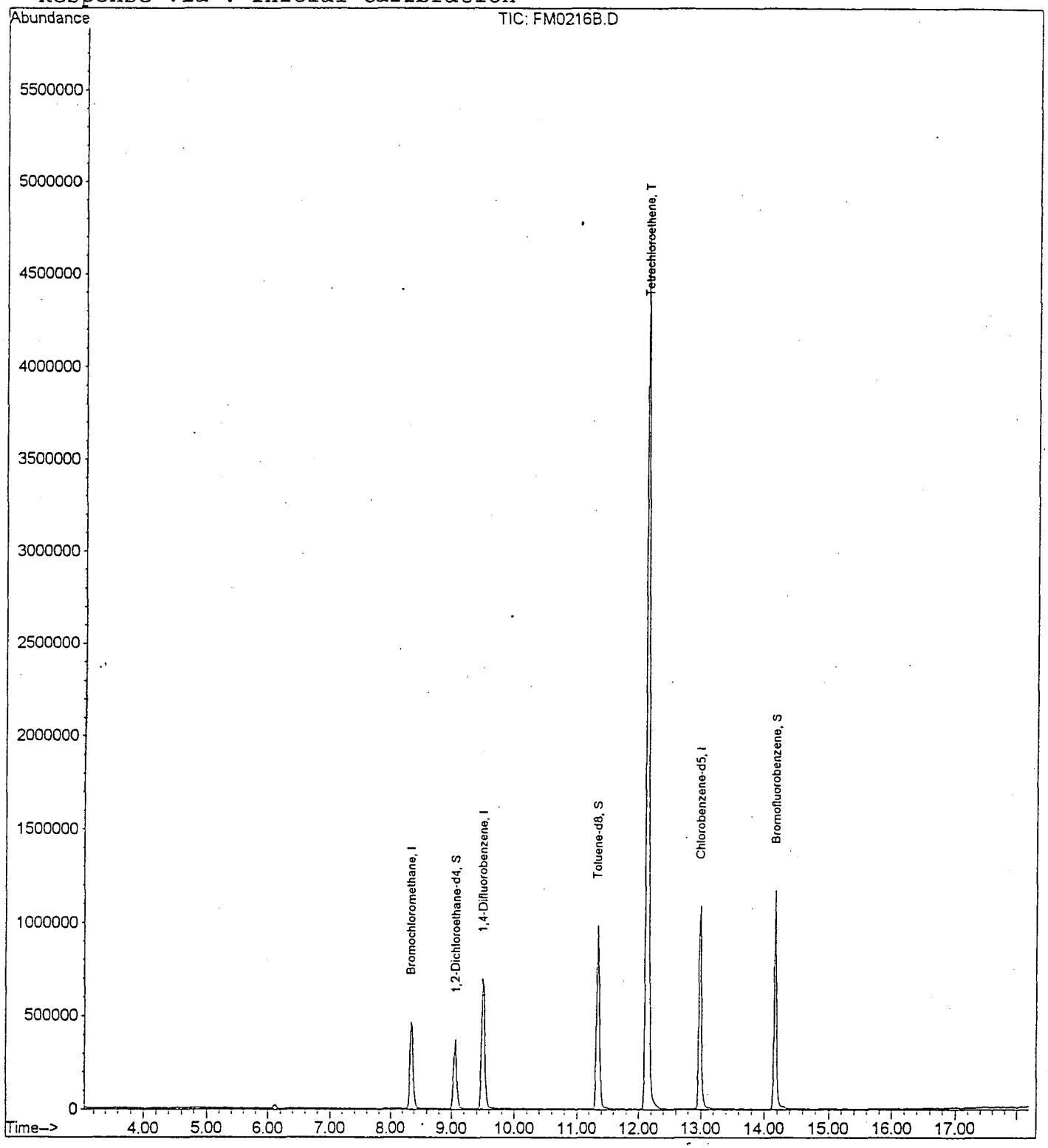
10-12-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-07-98\FM0216B.D Vial: 14
Acq On : 7 Oct 1998 19:55 Operator: GVC
Sample : AA72691(1/400) Inst : GCMS_1
Misc : M,2uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 8 8:41 1998 Quant Results File: MH01004.RES

Method : G:\GCMSDATA\METHODS\MH01004.M (RTE Integrator)
Title : @GCMS_1
Last Update : Mon Oct 05 08:36:32 1998
Response via : Initial Calibration



000030

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72692 *Matrix:* Soil

Client Id: C3-W-9 *Initial Volume:* 5ml

Data File: fl4935 *Final Volume:* NA

Date Analyzed: 25 Sep 1998 16:57 *Dilution Factor:* 125

Date Received/Extracted: 9/25/98-NA *Percent Solids:* 89

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	700	U
79345	1,1,2,2-Tetrachloroethane	700	U
79005	1,1,2-Trichloroethane	700	U
75343	1,1-Dichloroethane	700	U
75354	1,1-Dichloroethene	700	U
95501	1,2-Dichlorobenzene	700	U
107062	1,2-Dichloroethane	700	U
78875	1,2-Dichloropropane	700	U
541731	1,3-Dichlorobenzene	700	U
106467	1,4-Dichlorobenzene	700	U
110758	2-Chloroethylvinylether	700	U
75274	Bromodichloromethane	700	U
75252	Bromoform	700	U
74839	Bromomethane	700	U
56235	Carbon Tetrachloride	700	U
108907	Chlorobenzene	700	U
75003	Chloroethane	700	U
67663	Chloroform	700	U
74873	Chloromethane	700	U
156592	Cis-1,2-Dichloroethene	700	U
10061015	Cis-1,3-Dichloropropene	700	U
124481	Dibromochloromethane	700	U
75092	Methylene Chloride	700	U
127184	Tetrachloroethene	700	1500
156605	Trans-1,2-Dichloroethene	700	U
10061026	Trans-1,3-Dichloropropene	700	U
79016	Trichloroethene	700	U
75694	Trichlorofluoromethane	700	U
75014	Vinyl Chloride	700	U

Total Target Concentration 1500

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105428.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4935.D Vial: 5
Acq On : 25 Sep 1998 16:57 Operator: GVC
Sample : AA72692 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 11:05 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.51	128	84110	30.00	ug/l	0.00
25) 1,4-Difluorobenzene	7.90	114	536241	30.00	ug/l	0.00
44) Chlorobenzene-d5	11.65	117	555460	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.31	102	44297	33.28	ug/l	0.00
Spiked Amount 30.000			Recovery =	110.93%		
42) Toluene-d8	9.87	98	686047	27.31	ug/l	0.00
Spiked Amount 30.000			Recovery =	91.03%		
53) Bromofluorobenzene	12.93	176	124208	32.08	ug/l	0.00
Spiked Amount 30.000			Recovery =	106.93%		
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	42601	10.86	ug/l	98

V
10-2-98

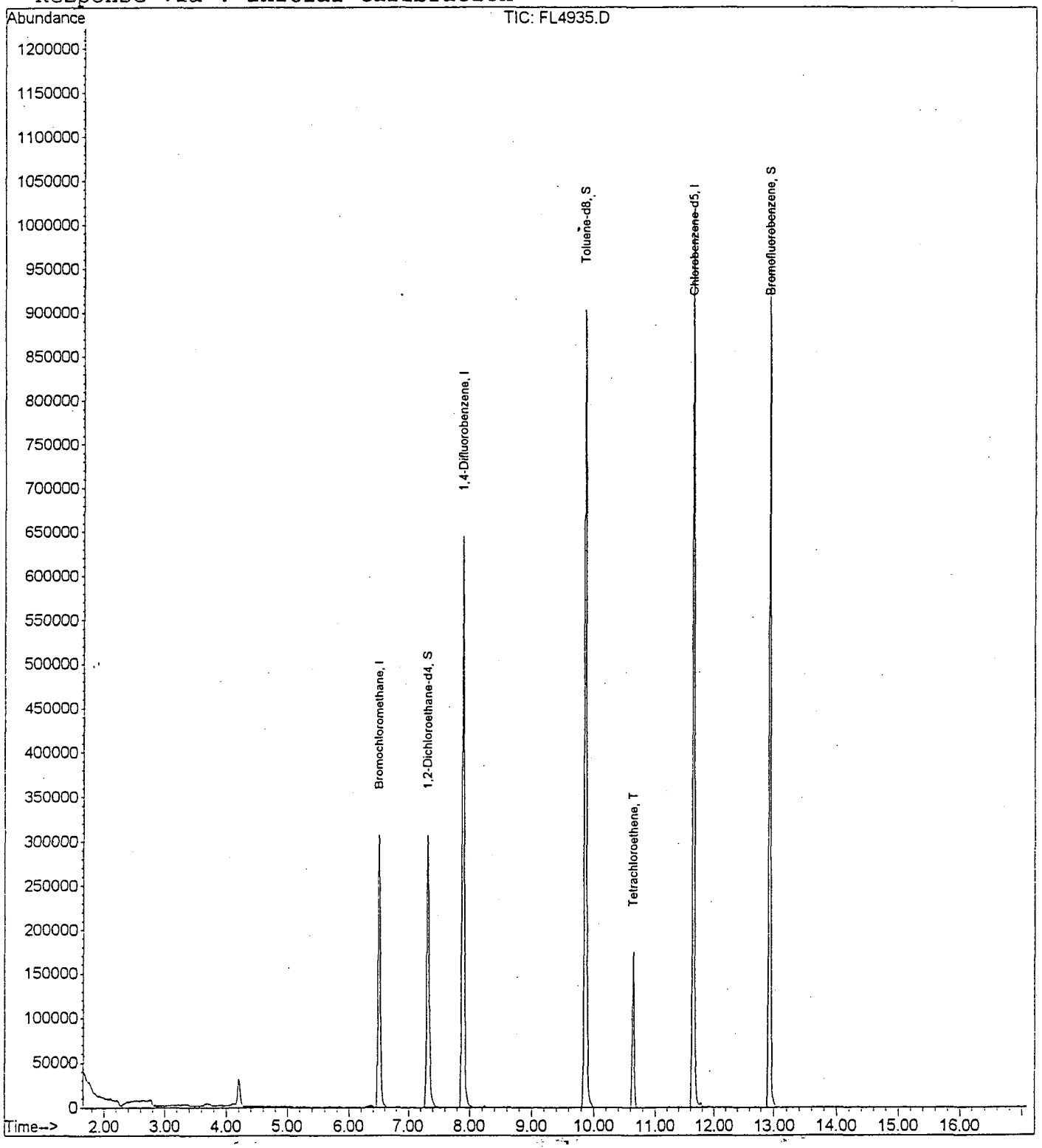
(#) = qualifier out of range (m) = manual integration
FL4935.D MG0924.M Wed Sep 30 11:16:22 1998 SYSTEM1 Page 1

000032
~~000031~~

Quantitation Report

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4935.D Vial: 5
Acq On : 25 Sep 1998 16:57 Operator: GVC
Sample : AA72692 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 11:05 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000033

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72693 — *Matrix:* Soil
Client Id: C3-N-9 — *Initial Volume:* 5ml
Data File: fl4937 — *Final Volume:* NA
Date Analyzed: 25 Sep 1998 17:49 — *Dilution Factor:* 125
Date Received/Extracted: 9/25/98-NA — *Percent Solids:* 87
Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	720	U
79345	1,1,2,2-Tetrachloroethane	720	U
79005	1,1,2-Trichloroethane	720	U
75343	1,1-Dichloroethane	720	U
75354	1,1-Dichloroethene	720	U
95501	1,2-Dichlorobenzene	720	U
107062	1,2-Dichloroethane	720	U
78875	1,2-Dichloropropane	720	U
541731	1,3-Dichlorobenzene	720	U
106467	1,4-Dichlorobenzene	720	U
110758	2-Chloroethylvinylether	720	U
75274	Bromodichloromethane	720	U
75252	Bromoform	720	U
74839	Bromomethane	720	U
56235	Carbon Tetrachloride	720	U
108907	Chlorobenzene	720	U
75003	Chloroethane	720	U
67663	Chloroform	720	U
74873	Chloromethane	720	U
156592	Cis-1,2-Dichloroethene	720	U
10061015	Cis-1,3-Dichloropropene	720	U
124481	Dibromochloromethane	720	U
75092	Methylene Chloride	720	U
127184	Tetrachloroethene	720	5600
156605	Trans-1,2-Dichloroethene	720	U
10061026	Trans-1,3-Dichloropropene	720	U
79016	Trichloroethene	720	U
75694	Trichlorofluoromethane	720	U
75014	Vinyl Chloride	720	U

Total Target Concentration 5600

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\105428.txt

Quantitation Report (QC Reviewed)

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4937.D Vial: 7
Acq On : 25 Sep 1998 17:49 Operator: GVC
Sample : AA72693 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 11:06 1998 Quant Results File: MG0924.RES

Quant Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration
DataAcq Meth : M_624NAP

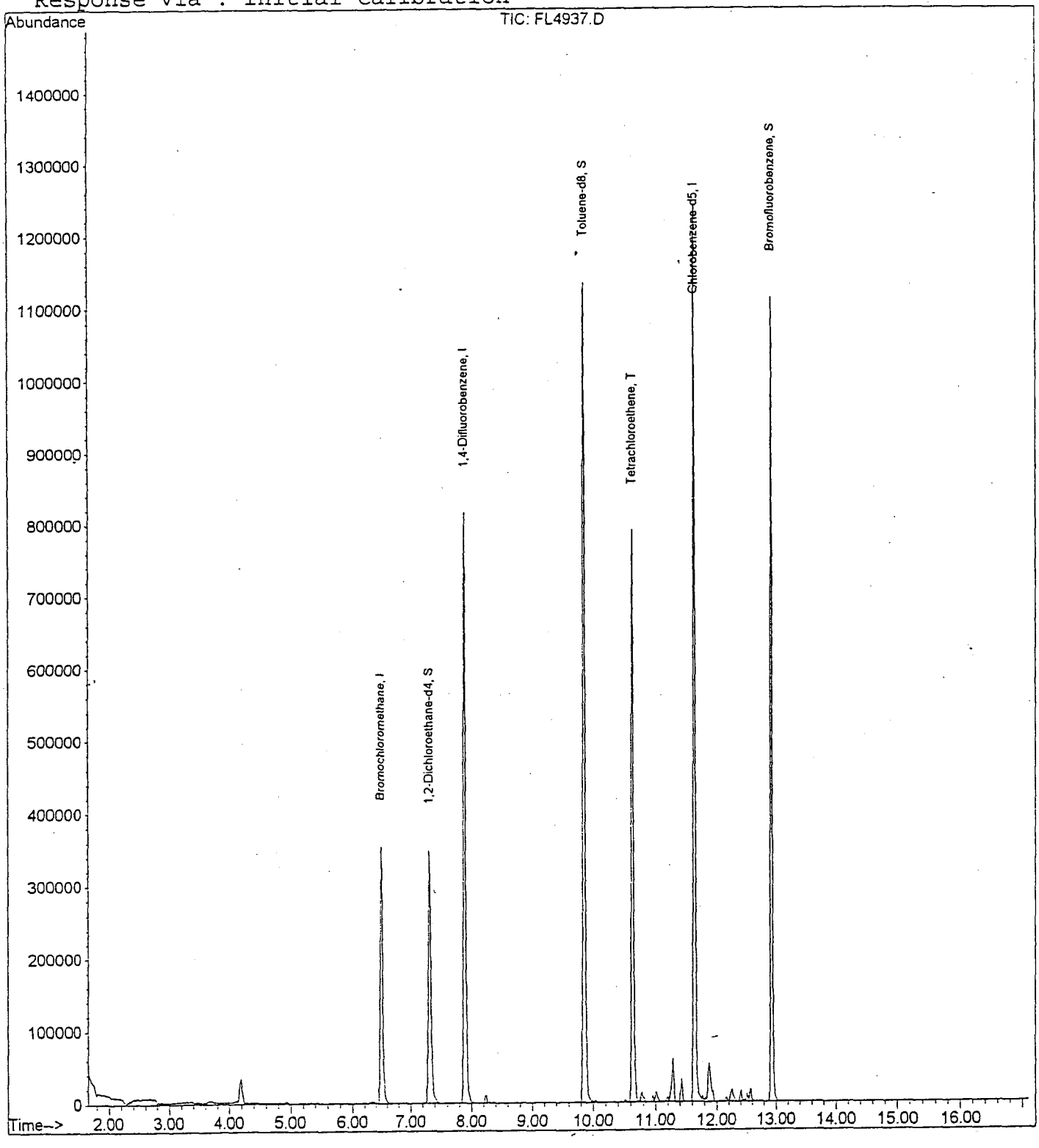
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.50	128	103908	30.00	ug/l	-0.01
25) 1,4-Difluorobenzene	7.89	114	700555	30.00	ug/l	-0.01
44) Chlorobenzene-d5	11.64	117	683019	30.00	ug/l	0.00
System Monitoring Compounds						
23) 1,2-Dichloroethane-d4	7.32	102	54152	32.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.77%			
42) Toluene-d8	9.86	98	883331	26.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.73%			
53) Bromofluorobenzene	12.93	176	142144	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.53%			
Target Compounds						Qvalue
47) Tetrachloroethene	10.64	164	189343	39.25	ug/l	97

10-22

(#) = qualifier out of range (m) = manual integration

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4937.D Vial: 7
Acq On : 25 Sep 1998 17:49 Operator: GVC
Sample : AA72693 Inst : GCMS_3
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 30 11:06 1998 Quant Results File: MG0924.RES

Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3
Last Update : Fri Sep 25 16:03:42 1998
Response via : Initial Calibration



000036

Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
f14933.d	DAILY BLANK(MEO	Methanol/Soil	107	97	108
f14934.d	DAILY BLANK(MEO	Methanol/Soil	112	97	112
f14935.d	C3-W-9	Methanol/Soil	111	91	107
f14936.d	C3-B-5	Methanol/Soil	105	91	105
f14937.d	C3-N-9	Methanol/Soil	110	90	100
f14938.d	AA72658	Methanol/Soil	108	89	106
f14939.d	AA72662	Methanol/Soil	98	93	95
f14940.d	AA72659	Methanol/Soil	94	91	86
f14941.d	AA72660	Methanol/Soil	96	93	96
f14942.d	AA72657	Methanol/Soil	95	96	95
f14943.d	AA72661	Methanol/Soil	95	93	93
f14944.d	C3-S-10	Methanol/Soil	94	95	93
f14945.d	BLANK	Aqueous	93	95	92
f14946.d	BLANK	Aqueous	95	95	98
f14947.d	EF1-1447(1/5)	Aqueous	95	98	93
f14948.d	AA71531(1/5)	Aqueous	95	99	92
f14949.d	AA72241(1/5)	Aqueous	96	99	93
f14950.d	AA72242(1/5)	Aqueous	94	98	93
f14951.d	AA72243(1/5)	Aqueous	92	96	87
f14952.d	AA72244(1/5)	Aqueous	92	98	92
f14953.d	AA72250(1/5)	Aqueous	92	98	95
f14954.d	MBS(MEOH)	Methanol/Soil	101	97	97
f14955.d	C3-W-9(MS)	Methanol/Soil	111	94	101
f14956.d	C3-W-9(MSD)	Methanol/Soil	114	92	108
f14957.d	AA71878	Methanol/Soil	94	75*	82
f14958.d	AA72204	Aqueous	95	94	97
f14959.d	AA72205	Aqueous	94	94	100
f14960.d	AA72377	Aqueous	94	95	100

Quality Control Limits

	Aqueous Limits 8260			*Soil Limits 8260*		
Compound	*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 = 1,2-Dichloroethane-d4	30	80	120	30	80	120
S2 = Toluene-d8	30	88	110	30	81	117
S3 = Bromofluorobenzene	30	86	115	30	74	121

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form2

SURROGATE RECOVERY FORM 8260

File	*Sample #*	*Matrix*	*S1*	*S2*	*S3*
fm0210.d	DAILY BLANK(MEO	Methanol/Soil	96	98	103
fm0210a.d	AA72691(1/200)(OL	Methanol/Soil	89	98	92
fm0211a.d	AA72691	Methanol/Soil	95	100	102
fm0211c.d	AA72691(1/200)	Methanol/Soil	96	115	100
fm0214.d	MBS(MEOH)	Methanol/Soil	98	110	103
fm0216b.d	AA72691(1/400)	Methanol/Soil	94	98	100

Quality Control Limits

		Aqueous Limits 8260			*Soil Limits 8260*		
Compound		*Conc*	*Lower*	*Upper*	*Conc*	*Lower*	*Upper*
S1 =	1,2-Dichloroethane-d4	30	80	120	30	80	120
S2 =	Toluene-d8	30	88	110	30	81	117
S3 =	Bromofluorobenzene	30	86	115	30	74	121

** - Values outside of method 8000 series limits*
 # - Values outside of method 600 series limits (if applicable).
NA - Not applicable

Form3
VOLATILE SPIKE RECOVERY FORM METHANOL

Data File	*Sample Number*	*Date Analyzed*	*Dilution*
fl4954.d	MBS(MEOH)	26 Sep 1998 1:10	1
fl4935.d	C3-W-9	25 Sep 1998 16:57	1
fl4955.d	C3-W-9(MS)	26 Sep 1998 1:36	1
fl4956.d	C3-W-9(MSD)	26 Sep 1998 2:02	1

		Quality Control Limits			*Concentration*				*Percent Recovery*			
Compound	*Amt Spk'd*	*Recovery Low*	*Hi*	*RPD*	*MBS*	*Sample*	*MS*	*MSD*	*MBS*	*MS*	*MSD*	*RPD*
1,1-Dichloroethene	20	59	172	22	17.22	0.00	13.44	13.21	86	67	66	1.7
Benzene	20	66	142	21	21.56	0.00	22.44	22.29	108	112	111	0.67
Chlorobenzene	20	60	133	21	23.70	0.00	25.10	24.37	119	126	122	3.0
Toluene	20	59	139	21	23.44	0.00	22.90	22.07	117	115	110	3.7
Trichloroethene	20	62	137	24	22.92	0.00	25.03	24.30	115	125	122	3.0

** - Values outside of Recovery limits*

 # - Values outside of RPD limits

^ - Both Spike And Duplicate Recoveries = 0 (no meaningful result available)

NA - Not applicable

Form 4

Method Blank Name: DAILY BL *Date Analyzed:* 25 Sep 1998 16:31

Method Blank File: fl4934.d *Date Extracted:* na

Matrix: Water

Sample File	*Sample Name*	*Date Analyzed*
fl4935.d	C3-W-9	25 Sep 1998 16:57
fl4936.d	C3-B-5	25 Sep 1998 17:23
fl4937.d	C3-N-9	25 Sep 1998 17:49
fl4938.d	AA72658	25 Sep 1998 18:15
fl4939.d	AA72662	25 Sep 1998 18:41
fl4940.d	AA72659	25 Sep 1998 19:07
fl4941.d	AA72660	25 Sep 1998 19:32
fl4942.d	AA72657	25 Sep 1998 19:58
fl4943.d	AA72661	25 Sep 1998 20:24
fl4944.d	C3-S-10	25 Sep 1998 20:50
fl4954.d	MBS(MEOH)	26 Sep 1998 1:10
fl4955.d	C3-W-9(MS)	26 Sep 1998 1:36
fl4956.d	C3-W-9(MSD)	26 Sep 1998 2:02
fl4957.d	AA71878	26 Sep 1998 2:28

Form 4

Method Blank Name: DAILY BL *Date Analyzed:* 7 Oct 1998 14:42

Method Blank File: fm0210.d *Date Extracted:* n/a

Matrix: Water

Sample File	*Sample Name*	*Date Analyzed*
fm0210a.d	AA72691(1/200	7 Oct 1998 15:06
fm0211.d	AA72551	7 Oct 1998 15:38
fm0211a.d	AA72691	7 Oct 1998 16:04
fm0211b.d	AA72551	7 Oct 1998 16:34
fm0211c.d	AA72691(1/200	7 Oct 1998 16:59
fm0212.d	AA72551	7 Oct 1998 17:24
fm0213.d	AA72548	7 Oct 1998 17:49
fm0214.d	MBS(MEOH)	7 Oct 1998 18:15
fm0215.d	AA72548(MS)	7 Oct 1998 18:40
fm0216.d	AA72548(MSD)	7 Oct 1998 19:05
fm0216b.d	AA72691(1/400	7 Oct 1998 19:55

Form5
CAL BFB TUNE

Tune File: fl4895.d

Date/Time Analyzed: 24 Sep 1998 13:38

Instrument: gcms_3

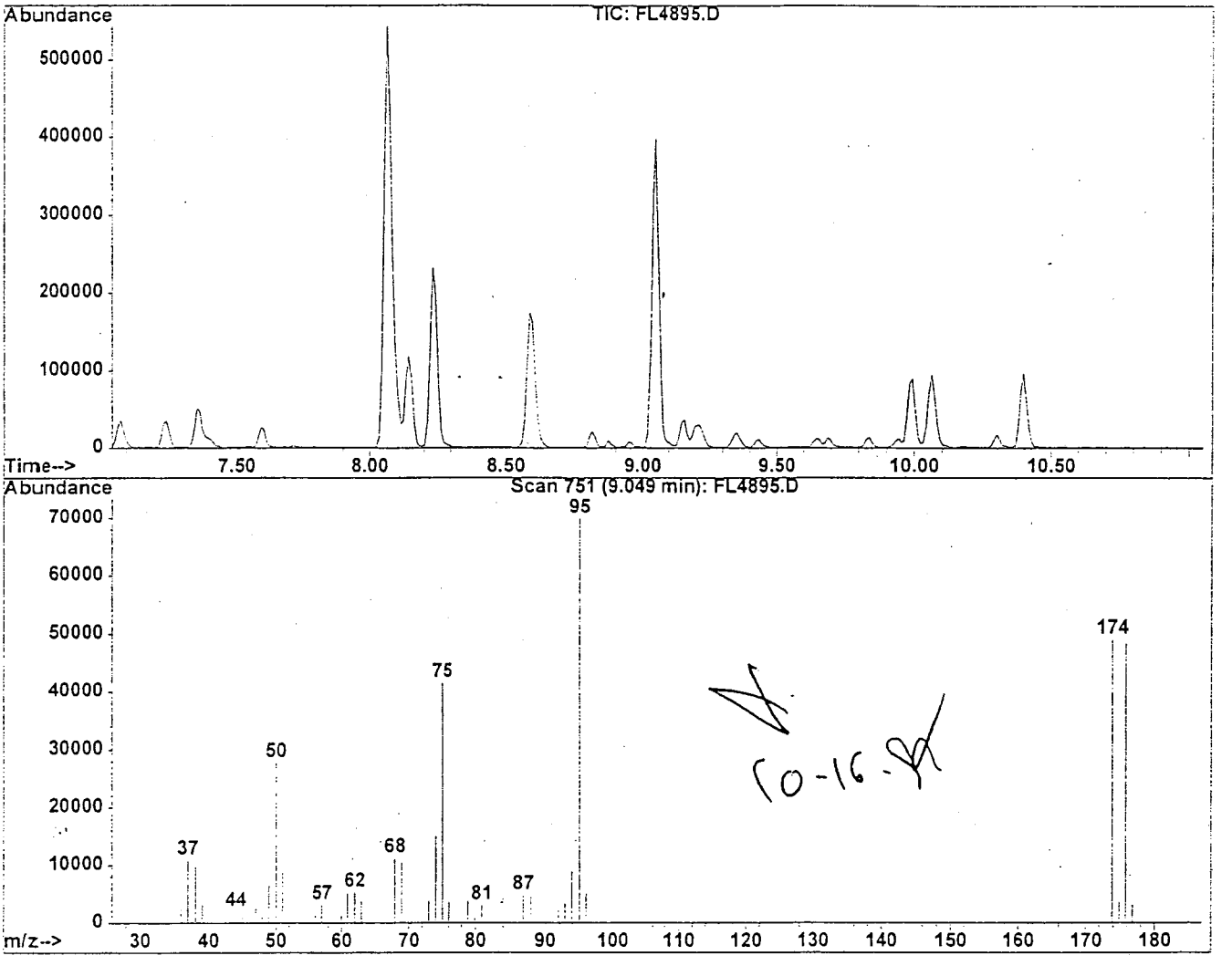
Tune Scan/Time Range: Scan 751

Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	39.7	27784	PASS
75	95	30	60	59.4	41568	PASS
95	95	100	100	100.0	69984	PASS
96	95	5	9	7.6	5333	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.1	49048	PASS
175	174	5	9	7.6	3711	PASS
176	174	95	101	98.8	48456	PASS
177	176	5	9	6.5	3173	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fl4896.d	CAL @ 500ppb	24 Sep 1998 14:05
fl4897.d	CAL @ 100ppb	24 Sep 1998 14:31
fl4898.d	CAL @ 50ppb	24 Sep 1998 14:57
fl4899.d	CAL @ 20ppb	24 Sep 1998 15:23
fl4900.d	CAL @ 10ppb	24 Sep 1998 15:49
fl4901.d	CAL @ 5ppb	24 Sep 1998 16:15
fl4902.d	DAILY BLANK(MEO	24 Sep 1998 16:47
fl4902a.d	DAILY BLANK(MEO	24 Sep 1998 17:22
fl4903.d	MBS(MEOH)	24 Sep 1998 17:49
fl4904.d	AA72254(MS)	24 Sep 1998 18:14
fl4905.d	AA72254(MSD)	24 Sep 1998 18:40
fl4906.d	AA72258	24 Sep 1998 19:06
fl4907.d	AA72405	24 Sep 1998 19:32
fl4908.d	AA72254	24 Sep 1998 19:58
fl4909.d	AA72255	24 Sep 1998 20:24
fl4910.d	AA72403	24 Sep 1998 20:49
fl4911.d	AA72257	24 Sep 1998 21:15
fl4912.d	AA72253(1/10)	24 Sep 1998 21:44
fl4913.d	AA72404(1/10)	24 Sep 1998 22:13
fl4914.d	AA72252(1/50)	24 Sep 1998 22:41
fl4915.d	AA72256(1/50)	24 Sep 1998 23:10
fl4916.d	AA72401(1/20)	24 Sep 1998 23:36
fl4917.d	AA72402(1/20)	25 Sep 1998 00:01
fl4918.d	AA72400(1/200)	25 Sep 1998 00:30
fl4919.d	AA71776	25 Sep 1998 00:56
fl4920.d	AA72660	25 Sep 1998 10:03
fl4921.d	AA72658	25 Sep 1998 10:29
fl4922.d	AA72659	25 Sep 1998 10:55
fl4923.d	AA72657	25 Sep 1998 11:21
fl4924.d	AA72661	25 Sep 1998 11:46
fl4925.d	AA72662	25 Sep 1998 12:12
fl4926.d	C3-B-5 (ECOSYS)	25 Sep 1998 12:38
fl4927.d	C3-N-9 (ECOSYS)	25 Sep 1998 13:04
fl4928.d	C3-S-10 (ECOSYS)	25 Sep 1998 13:30
fl4929.d	C3-W-9 (ECOSYS)	25 Sep 1998 13:56
fl4930.d	BLANK	25 Sep 1998 14:21

CLPBFB

Data File : G:\GCMSDATA\GCMS_3\09-24-98\FL4895.D Vial: 5
Acq On : 24 Sep 1998 13:38 Operator: GVC
Sample : CAL BFB TUNE Inst : GCMS_3
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MG0922.M (RTE Integrator)
Title : @GCMS_3



10-16-98

Spectrum Information: Scan 751

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	39.7	27784	PASS
75	95	30	60	59.4	41568	PASS
95	95	100	100	100.0	69984	PASS
96	95	5	9	7.6	5333	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.1	49048	PASS
175	174	5	9	7.6	3711	PASS
176	174	95	101	98.8	48456	PASS
177	176	5	9	6.5	3173	PASS

Form5
CAL BFB TUNE

Tune File: fl4931.d

Date/Time Analyzed: 25 Sep 1998 14:46

Instrument: gcms_3

Tune Scan/Time Range: Scan 751

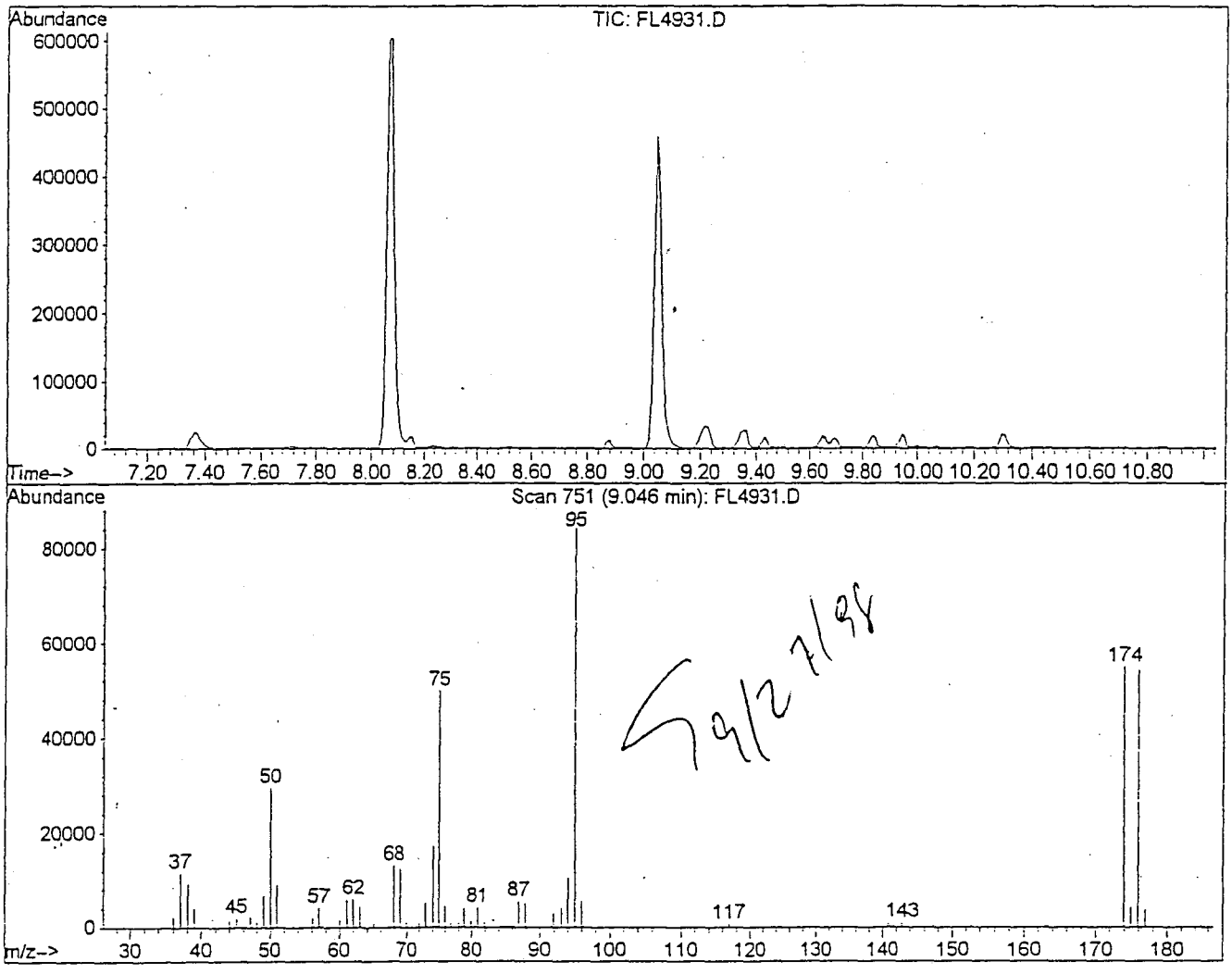
Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	35.1	29584	PASS
75	95	30	60	59.2	49952	PASS
95	95	100	100	100.0	84344	PASS
96	95	5	9	6.7	5645	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.0	54792	PASS
175	174	5	9	7.8	4285	PASS
176	174	95	101	99.0	54248	PASS
177	176	5	9	7.0	3795	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fl4932.d	CAL @ 20ppb	25 Sep 1998 15:20
fl4933.d	DAILY BLANK(MEO	25 Sep 1998 15:54
fl4934.d	DAILY BLANK(MEO	25 Sep 1998 16:31
fl4935.d	C3-W-9	25 Sep 1998 16:57
fl4936.d	C3-B-5	25 Sep 1998 17:23
fl4937.d	C3-N-9	25 Sep 1998 17:49
fl4938.d	AA72658	25 Sep 1998 18:15
fl4939.d	AA72662	25 Sep 1998 18:41
fl4940.d	AA72659	25 Sep 1998 19:07
fl4941.d	AA72660	25 Sep 1998 19:32
fl4942.d	AA72657	25 Sep 1998 19:58
fl4943.d	AA72661	25 Sep 1998 20:24
fl4944.d	C3-S-10	25 Sep 1998 20:50
fl4945.d	BLANK	25 Sep 1998 21:16
fl4946.d	BLANK	25 Sep 1998 21:42
fl4947.d	EF1-1447(1/5)	25 Sep 1998 22:08
fl4948.d	AA71531(1/5)	25 Sep 1998 22:34
fl4949.d	AA72241(1/5)	25 Sep 1998 23:00
fl4950.d	AA72242(1/5)	25 Sep 1998 23:26
fl4951.d	AA72243(1/5)	25 Sep 1998 23:52
fl4952.d	AA72244(1/5)	26 Sep 1998 00:18
fl4953.d	AA72250(1/5)	26 Sep 1998 00:44
fl4954.d	MBS(MEOH)	26 Sep 1998 1:10
fl4955.d	C3-W-9(MS)	26 Sep 1998 1:36
fl4956.d	C3-W-9(MSD)	26 Sep 1998 2:02
fl4957.d	AA71878	26 Sep 1998 2:28
fl4958.d	AA72204	26 Sep 1998 2:54
fl4959.d	AA72205	26 Sep 1998 3:20
fl4960.d	AA72377	26 Sep 1998 3:46
fl4961.d	AA72580	26 Sep 1998 4:12
fl4962.d	AA72581	26 Sep 1998 4:38
fl4963.d	AA72615	26 Sep 1998 5:04
fl4964.d	AA72626	26 Sep 1998 5:30
fl4965.d	AA72627	26 Sep 1998 13:47
fl4966.d	AA72688	26 Sep 1998 14:13
fl4967.d	AA72689	26 Sep 1998 14:39

CLPBFB

Data File : G:\GCMSDATA\GCMS_3\09-25-98\FL4931.D
Acq On : 25 Sep 1998 14:46
Sample : CAL BFB TUNE
Misc : A,5mL
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MG0924.M (RTE Integrator)
Title : @GCMS_3

Vial: 1
Operator: GVC
Inst : GCMS_3
Multiplr: 1.00



Spectrum Information: Scan 751

Target Mass	Rel.. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	35.1	29584	PASS
75	95	30	60	59.2	49952	PASS
95	95	100	100	100.0	84344	PASS
96	95	5	9	6.7	5645	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.0	54792	PASS
175	174	5	9	7.8	4285	PASS
176	174	95	101	99.0	54248	PASS
177	176	5	9	7.0	3795	PASS

FL4931.D MG0924.M Sun Sep 27 10:46:29 1998 SYSTEM1

Form5
CAL BFB TUNE

Tune File: fm0106.d

Date/Time Analyzed: 4 Oct 1998 16:00

Instrument: gcms_1

Tune Scan/Time Range: Average of 6.577 to 6.664 min.

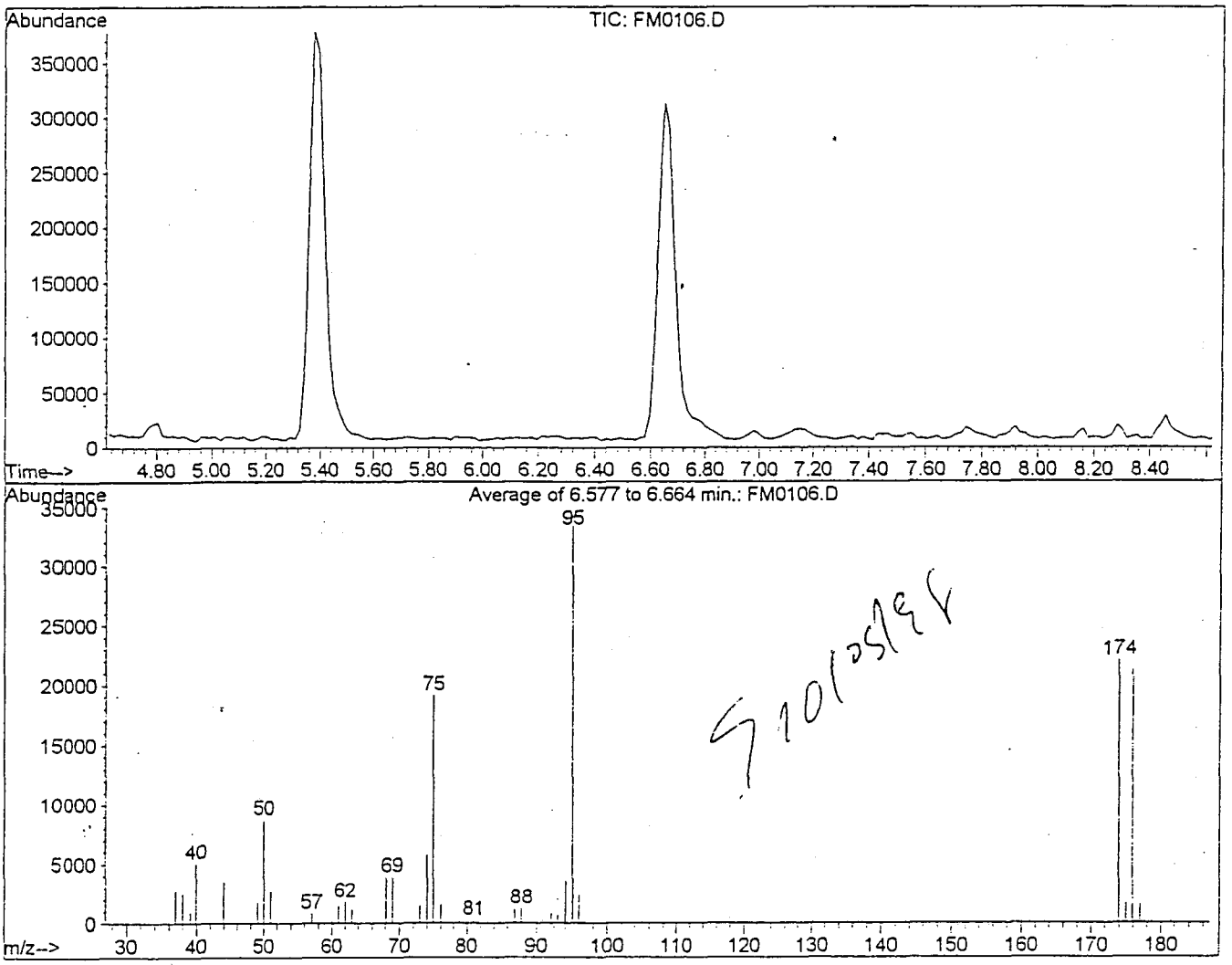
Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	26.2	8747	PASS
75	95	30	60	57.2	19124	PASS
95	95	100	100	100.0	33409	PASS
96	95	5	9	7.3	2447	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.0	22049	PASS
175	174	5	9	7.5	1645	PASS
176	174	95	101	96.2	21205	PASS
177	176	5	9	7.8	1644	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fm0107.d	CAL @ 500 PPB	4 Oct 1998 16:24
fm0108.d	CAL @ 100 PPB	4 Oct 1998 16:49
fm0109.d	CAL @ 50 PPB	4 Oct 1998 17:14
fm0110.d	CAL @ 20 PPB	4 Oct 1998 17:39
fm0111.d	CAL @ 10 PPB	4 Oct 1998 18:03
fm0112.d	CAL @ 5 PPB	4 Oct 1998 18:28
fm0113.d	DAILY BLK(MEOH)	4 Oct 1998 18:53
fm0114.d	DAILY BLK(A)	4 Oct 1998 19:18
fm0115.d	DAILY BLK(MEOH)	4 Oct 1998 19:42
fm0116.d	AA72939(1/10)	4 Oct 1998 20:07
fm0117.d	AA72940(1/10)	4 Oct 1998 20:32
fm0118.d	AA72942(1/10)	4 Oct 1998 20:57
fm0119.d	AA72944(1/10)	4 Oct 1998 21:22
fm0120.d	AA72946(1/10)	4 Oct 1998 21:47
fm0121.d	AA72948(1/10)	4 Oct 1998 22:12
fm0122.d	AA72949(1/10)	4 Oct 1998 22:37
fm0123.d	AA72950(1/10)	4 Oct 1998 23:02
fm0124.d	AA72941(1/100)	4 Oct 1998 23:27
fm0125.d	AA72947(1/100)	4 Oct 1998 23:52
fm0126.d	AA72943(1/100)	5 Oct 1998 00:17
fm0127.d	AA72945(1/100)	5 Oct 1998 00:42
fm0128.d	AA72754	5 Oct 1998 1:07
fm0129.d	AA72755	5 Oct 1998 1:32
fm0130.d	AA72757	5 Oct 1998 1:57
fm0131.d	AA72758	5 Oct 1998 2:21
fm0132.d	AA72749(1/2)	5 Oct 1998 2:54
fm0133.d	AA72941(MS)	5 Oct 1998 3:19
fm0134.d	AA72941(MSD)	5 Oct 1998 3:44
fm0135.d	MBS(MEOH)	5 Oct 1998 4:09

CLPBFB

Data File : G:\GCMSDATA\GCMS_1\10-04-98\FM0106.D
Acq On : 4 Oct 1998 16:00
Sample : CAL BFB TUNE
Misc : A,5mL
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MH01004.M (RTE Integrator)
Title : @GCMS_1

Vial: 6
Operator: GVC
Inst : GCMS_1
Multiplr: 1.00



Spectrum Information: Average of 6.577 to 6.664 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.2	8747	PASS
75	95	30	60	57.2	19124	PASS
95	95	100	100	100.0	33409	PASS
96	95	5	9	7.3	2447	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.0	22049	PASS
175	174	5	9	7.5	1645	PASS
176	174	95	101	96.2	21205	PASS
177	176	5	9	7.8	1644	PASS

Form5
CAL BFB TUNE

Tune File: fm0205.d

Date/Time Analyzed: 7 Oct 1998 11:56

Instrument: gcms_1

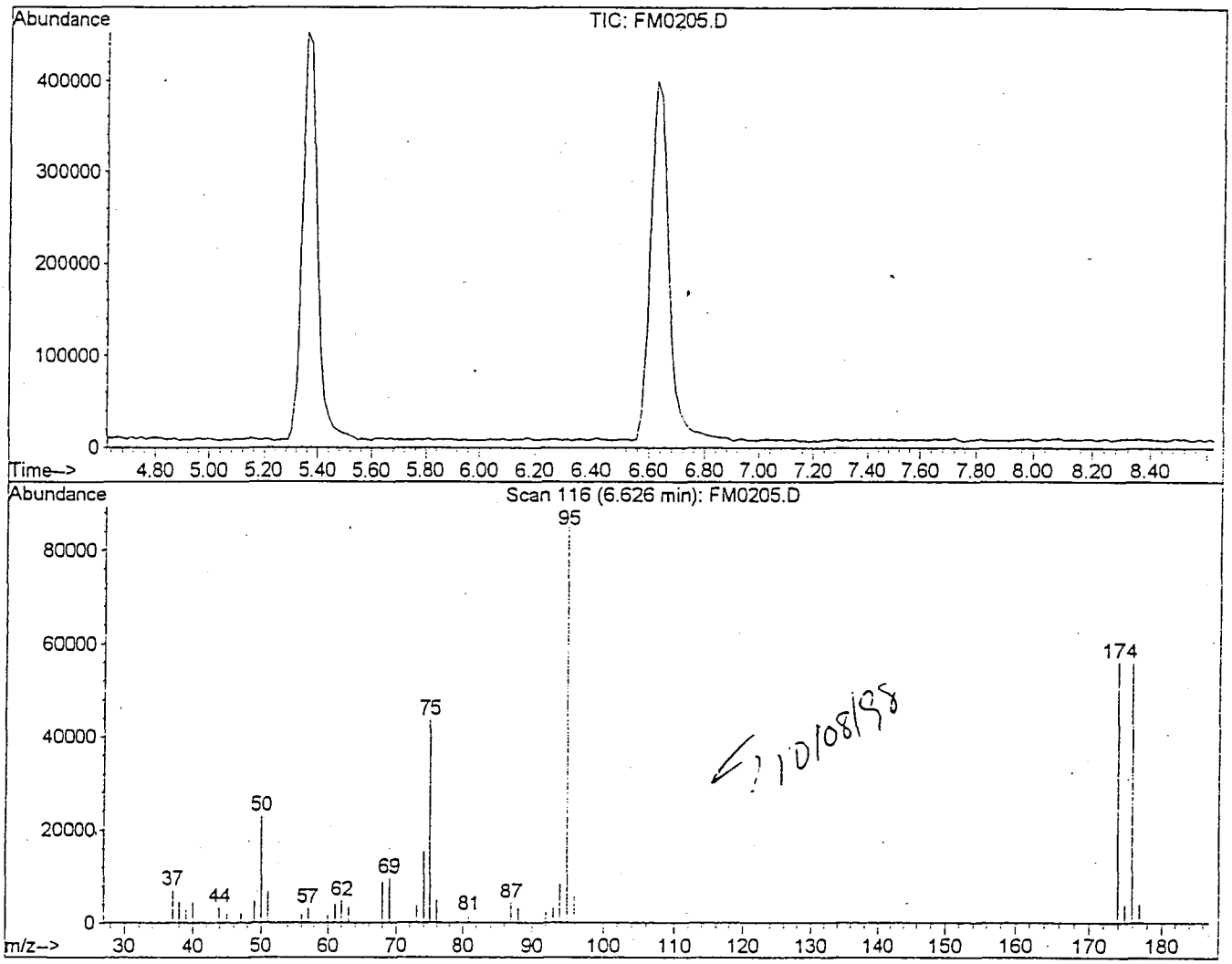
Tune Scan/Time Range: Scan 116

Target Mass	*Relative To Mass*	*Lower Limit*	*Upper Limit*	*Relative Abund*	*Raw Abund*	*Pass/Fail*
50	95	15	40	26.8	22800	PASS
75	95	30	60	51.1	43520	PASS
95	95	100	100	100.0	85200	PASS
96	95	5	9	6.7	5711	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.8	56080	PASS
175	174	5	9	7.0	3900	PASS
176	174	95	101	99.9	56008	PASS
177	176	5	9	7.1	3971	PASS

Sample File	*Sample Name*	*Date/Time Analyzed*
fm0206.d	CAL @ 20ppb	7 Oct 1998 12:20
fm0207.d	CAL @ 20ppb	7 Oct 1998 13:40
fm0209.d	AA72691(1/200)	7 Oct 1998 14:15
fm0210.d	DAILY BLANK(MEO	7 Oct 1998 14:42
fm0210a.d	AA72691(1/200)(OL	7 Oct 1998 15:06
fm0211.d	AA72551	7 Oct 1998 15:38
fm0211a.d	AA72691	7 Oct 1998 16:04
fm0211b.d	AA72551	7 Oct 1998 16:34
fm0211c.d	AA72691(1/200)	7 Oct 1998 16:59
fm0212.d	AA72551	7 Oct 1998 17:24
fm0213.d	AA72548	7 Oct 1998 17:49
fm0214.d	MBS(MEOH)	7 Oct 1998 18:15
fm0215.d	AA72548(MS)	7 Oct 1998 18:40
fm0216.d	AA72548(MSD)	7 Oct 1998 19:05
fm0216a.d	AA72551	7 Oct 1998 19:30
fm0216b.d	AA72691(1/400)	7 Oct 1998 19:55
fm0217.d	AA73077	7 Oct 1998 20:20
fm0218.d	AA73079	7 Oct 1998 20:45
fm0219.d	AA73089	7 Oct 1998 21:10
fm0220.d	AA73093	7 Oct 1998 21:35
fm0221.d	AA73117	7 Oct 1998 22:00
fm0222.d	AA73118	7 Oct 1998 22:25
fm0223.d	AA73190	7 Oct 1998 22:50
fm0224.d	AA73072	7 Oct 1998 23:15
fm0225.d	AA73075	7 Oct 1998 23:41
fm0226.d	AA73076	8 Oct 1998 00:05
fm0227.d	AA73078	8 Oct 1998 00:30
fm0228.d	AA73088	8 Oct 1998 00:55
fm0229.d	AA73109	8 Oct 1998 1:20
fm0230.d	AA73112	8 Oct 1998 1:45
fm0231.d	AA73113	8 Oct 1998 2:10
fm0232.d	AA73114	8 Oct 1998 2:35
fm0233.d	AA73119	8 Oct 1998 3:00
fm0234.d	AA73189	8 Oct 1998 3:25
fm0235.d	AA73192	8 Oct 1998 3:51
fm0236.d	AA73193	8 Oct 1998 4:16
fm0237.d	AA73194	8 Oct 1998 4:41
fm0238.d	AA73195	8 Oct 1998 5:06
fm0239.d	AA73110	8 Oct 1998 5:31
fm0240.d	AA73092(1/10)	8 Oct 1998 5:58
fm0241.d	AA73191(1/10)	8 Oct 1998 6:24
fm0242.d	AA73111(1/20)	8 Oct 1998 6:51
fm0243.d	AA73074(1/50)	8 Oct 1998 7:18
fm0244.d	AA73115(1/50)	8 Oct 1998 7:44
fm0245.d	AA73073(1/100)	8 Oct 1998 8:11
fm0246.d	AA73197(1/100)	8 Oct 1998 8:37
fm0247.d	AA73196(1/100)	8 Oct 1998 10:02
fm0248.d	AA73116(1/1000)	8 Oct 1998 10:27
fm0249.d	AA73119	8 Oct 1998 10:52
fm0250.d	AA73116(1/100)	8 Oct 1998 11:16

CLPBFB

Data File : G:\GCMSDATA\GCMS_1\10-07-98\FM0205.D Vial: 1
Acq On : 7 Oct 1998 11:56 Operator: GVC
Sample : CAL BFB TUNE Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\GCMSDATA\METHODS\MH01004.M (RTE Integrator)
Title : @GCMS_1



Spectrum Information: Scan 116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.8	22800	PASS
75	95	30	60	51.1	43520	PASS
95	95	100	100	100.0	85200	PASS
96	95	5	9	6.7	5711	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.8	56080	PASS
175	174	5	9	7.0	3900	PASS
176	174	95	101	99.9	56008	PASS
177	176	5	9	7.1	3971	PASS

Form6
Initial Calibration

Method File: G:\GCMSDATA\methods\mg0924.m *Instrument:* GCMS_3

Level #	Data File	Data File Analysis Date	Concentration	Calibration File Update Time
1	FL4901.D	24 Sep 1998 16:15	5	Thu Sep 24 17:23:59 1998
2	FL4900.D	24 Sep 1998 15:49	10	Thu Sep 24 17:24:04 1998
3	FL4899.D	24 Sep 1998 15:23	20	Thu Sep 24 17:24:07 1998
4	FL4898.D	24 Sep 1998 14:57	50	Thu Sep 24 17:24:13 1998
5	FL4897.D	24 Sep 1998 14:31	100	Thu Sep 24 17:24:19 1998
6	FL4896.D	24 Sep 1998 14:05	500	Thu Sep 24 17:24:23 1998

Response Factors

Compound	Fit	Level 1	2	3	4	5	6	Average RF	R.T.	Corr1	Corr2	%Rsd	*/**(limits)	Alternate Curve Conc
Dichlorodifluoromethane	Avg	2.480	2.555	2.497	2.423	2.450	1.998	2.401	1.720	0.9981	1.0000	8.4186		
Chloromethane	Avg	4.115	4.251	4.144	4.084	3.785	3.344	3.954	1.927	0.9993	1.0000	8.5229	**(0.100)	
Bromomethane	Avg	1.228	1.197	1.200	1.201	1.148	0.546	1.086	2.419	0.9512	1.0000	24.5093		
Vinyl Chloride	Avg	1.591	1.649	1.609	1.578	1.705	1.493	1.604	2.035	0.9992	0.9999	4.4439	*(30)	
Chloroethane	Avg	0.846	0.843	0.799	0.797	0.780	0.579	0.774	2.537	0.9954	1.0000	12.8027		
Trichlorofluoromethane	Avg	1.519	1.523	1.528	1.521	1.523	1.391	1.501	2.833	0.9997	1.0000	3.5772		
Methylene Chloride	Avg	2.473	1.895	1.709	1.534	1.499	1.216	1.721	4.281	0.9984	1.0000	25.1189		
Acrolein	Avg	0.133	0.154	0.154	0.159	0.160	0.125	0.147	3.424	0.9963	1.0000	9.9956		25 50 100 250 500 25
Acrylonitrile	Avg	0.766	0.805	0.812	0.805	0.795	0.536	0.761	4.695	0.9950	1.0000	11.4823		25 50 100 250 500 25
Acetone	Avg	1.085	0.905	0.769	0.696	0.641	0.494	0.765	3.651	0.9973	1.0000	27.1445		25 50 100 250 500 25
Carbon Disulfide	Avg	3.557	3.521	3.519	3.376	3.431	2.959	3.394	3.828	0.9991	1.0000	6.5806		
t-Butyl Alcohol	Avg	0.059	0.078	0.088	0.107	0.126	0.123	0.097	4.547	0.9998	0.9998	27.4936		25 50 100 250 500 25
Di-isopropyl-ether	Avg	11.537	12.817	13.962	14.732	14.762	12.407	13.369	5.404	0.9984	1.0000	9.8872		
1,1-Dichloroethene	Avg	2.398	2.403	2.380	2.341	2.290	1.933	2.291	3.513	0.9987	1.0000	7.8747	*(30)	
Methyl-t-butyl ether	Avg	3.129	3.393	3.833	4.020	4.383	3.803	3.760	4.675	0.9989	0.9999	11.8660		
1,1-Dichloroethane	Avg	3.802	3.799	3.922	4.020	4.077	3.820	3.907	5.335	0.9998	1.0000	3.0802	**(0.100)	
trans-1,2-Dichloroethene	Avg	1.240	1.298	1.325	1.313	1.290	1.018	1.247	4.675	0.9972	1.0000	9.3077		
cis-1,2-Dichloroethene	Avg	3.778	4.076	4.391	4.416	4.404	3.631	4.116	6.192	0.9981	1.0000	8.4126		
2,2-Dichloropropane	Avg	2.692	2.640	2.897	2.991	3.130	2.748	2.850	6.153	0.9992	1.0000	6.6539		
1,1-Dichloropropene	Avg	2.446	2.868	3.321	3.525	3.497	3.074	3.122	7.098	0.9991	1.0000	13.3317		
Chloroform	Avg	3.505	3.561	3.545	3.592	3.604	3.408	3.536	6.665	0.9999	1.0000	2.0345	*(30)	
1,2-Dichloroethane-d4	Avg	0.487	0.491	0.466	0.522	0.518	0.499	0.497	7.354	0.0000	0.0000	4.1789		30 30 30 30 30
1,2-Dichloroethane	Avg	3.856	3.955	4.039	4.166	4.038	3.766	3.970	7.463	0.9998	1.0000	3.6054		
2-Butanone	Avg	0.185	0.219	0.261	0.296	0.300	0.273	0.256	6.241	0.9994	1.0000	17.7048		
1,2-Dibromoethane	Avg	0.307	0.328	0.343	0.359	0.348	0.315	0.333	11.157	0.9995	1.0000	6.0502		
1,1,1-Trichloroethane	Avg	0.471	0.438	0.455	0.450	0.455	0.415	0.447	6.862	0.9996	1.0000	4.3185		
Carbon Tetrachloride	Avg	0.403	0.384	0.397	0.381	0.371	0.312	0.375	7.088	0.9987	1.0000	8.7546		
Vinyl Acetate	Avg	2.055	2.285	2.459	2.501	2.380	1.939	2.270	5.414	0.9978	1.0000	9.9859		
Bromodichloromethane	Avg	0.498	0.486	0.516	0.526	0.514	0.469	0.501	8.980	0.9996	1.0000	4.2736		
Dibromomethane	Avg	0.189	0.188	0.189	0.192	0.184	0.159	0.183	8.783	0.9990	1.0000	6.5977		
1,2-Dichloropropane	Avg	0.556	0.582	0.615	0.622	0.604	0.521	0.583	8.596	0.9989	1.0000	6.6782	*(30)	
cis-1,3-Dichloropropene	Avg	0.470	0.503	0.572	0.603	0.584	0.531	0.544	9.571	0.9995	1.0000	9.4019		
Trichloroethene	Avg	0.257	0.275	0.289	0.293	0.281	0.245	0.273	8.280	0.9991	1.0000	6.8312		
Benzene	Avg	1.501	1.494	1.521	1.474	1.378	1.166	1.422	7.394	0.9987	1.0000	9.5062		
Dibromochloromethane	Avg	0.341	0.344	0.361	0.376	0.371	0.334	0.355	11.029	0.9995	1.0000	4.8655		
2-Chloroethylvinylether	Avg	0.129	0.167	0.222	0.268	0.277	0.263	0.221	9.364	0.9997	1.0000	27.5323		
trans-1,3-Dichloropropene	Avg	0.408	0.441	0.503	0.543	0.525	0.482	0.484	10.300	0.9995	1.0000	10.6438		
1,1,2-Trichloroethane	Avg	0.300	0.291	0.305	0.317	0.305	0.266	0.297	10.536	0.9991	1.0000	5.8290		
1,3-Dichloropropane	Avg	0.623	0.629	0.664	0.687	0.666	0.596	0.644	10.743	0.9994	1.0000	5.2586		
Bromoform	Avg	0.243	0.246	0.254	0.263	0.259	0.248	0.252	12.644	0.9999	1.0000	3.1751	**(0.100)	
4-Methyl-2-Pentanone	Avg	0.446	0.511	0.565	0.615	0.651	0.613	0.567	9.758	0.9998	1.0000	13.4690		
2-Hexanone	Avg	0.338	0.380	0.435	0.479	0.504	0.465	0.433	10.812	0.9996	1.0000	14.6005		
Tetrachloroethene	Avg	0.276	0.239	0.236	0.210	0.204	0.172	0.223	10.674	0.9989	1.0000	15.9378		
1,1,2,2-Tetrachloroethane	Avg	0.620	0.615	0.601	0.585	0.551	0.422	0.566	13.117	0.9965	1.0000	13.1663	**(0.300)	
Toluene-d8	Avg	0.912	0.916	0.910	0.914	0.921	0.962	0.922	9.896	0.0000	0.0000	2.1327		30 30 30 30 30
Toluene	Avg	0.774	0.787	0.801	0.757	0.731	0.617	0.745	9.985	0.9987	1.0000	9.0283	*(30)	
1,1,1,2-Tetrachloroethane	Avg	0.286	0.273	0.282	0.277	0.272	0.222	0.269	11.797	0.9981	1.0000	8.7322		
Chlorobenzene	Avg	0.872	0.873	0.852	0.818	0.772	0.625	0.802	11.709	0.9979	1.0000	11.8008	**(0.300)	
Ethylbenzene	Avg	0.374	0.389	0.391	0.375	0.355	0.256	0.357	11.797	0.9943	1.0000	14.3004	*(30)	
Bromofluorobenzene	Avg	0.212	0.222	0.207	0.215	0.202	0.223	0.214	12.959	0.0000	0.0000	3.7911		30 30 30 30 30
Styrene	Avg	0.871	0.956	0.956	0.935	0.881	0.671	0.878	12.398	0.9961	1.0000	12.2912		
m&p-Xylenes	Avg	0.506	0.514	0.509	0.478	0.441	0.306	0.459	11.925	0.9925	1.0000	17.3802		10 20 40 100 200 10
o-Xylene	Avg	0.450	0.508	0.524	0.503	0.470	0.343	0.466	12.378	0.9945	1.0000	14.1632		
1,3-Dichlorobenzene	Avg	0.608	0.650	0.619	0.607	0.560	0.475	0.586	14.073	0.9987	1.0000	10.5441		
1,4-Dichlorobenzene	Avg	0.589	0.651	0.633	0.621	0.582	0.513	0.598	14.161	0.9992	1.0000	8.2458		
1,2-Dichlorobenzene	Avg	0.575	0.639	0.612	0.594	0.557	0.482	0.576	14.536	0.9991	1.0000	9.4435		
Isopropylbenzene	Avg	0.799	0.907	0.979	0.970	0.944	0.812	0.902	12.763	0.9989	1.0000	8.7497		
1,2,3-Trichloropropane	Avg	0.651	0.655	0.655	0.647	0.625	0.531	0.527	13.166	0.9988	1.0000	7.7071		
4-Chlorotoluene	Avg	1.186	1.267	1.149	1.224	1.170	1.003	1.167	13.304	0.9989	1.0000	7.7492		
2-Chlorotoluene	Avg	1.149	1.218	1.196	1.179	1.101	0.973	1.136	13.423	0.9993	1.0000	7.9015		
n-Propylbenzene	Avg	1.552	1.672	1.696	1.647	1.575	1.316	1.577	13.186	0.9985	1.0000	8.8300		
Bromobenzene	Avg	1.050	1.056	1.063	1.038	0.973	0.751	0.990	13.127	0.9969	1.0000	11.8066		
1,3,5-Trimethylbenzene	Avg	0.933	0.997	1.011	0.989	0.938	0.829	0.950	13.363	0.9993	1.0000	7.0449		
t-Butylbenzene	Avg	0.621	0.707	0.849	0.741	0.802	0.617	0.723	13.698	0.9965	0.9998	13.0486		
1,2,4-Trimethylbenzene	Avg	0.995	1.059	1.076	1.049	1.002	0.877	1.010	13.748	0.9992	1.0000	7.1901		
sec-Butylbenzene	Avg	0.882	1.031	1.084	1.065	1.038	0.926	1.004	13.915	0.9994	1.0000	8.0867		
4-Isopropyltoluene	Avg	0.738	0.844	0.865	0.865	0.824	0.662	0.800	14.043	0.9976	1.0000	10.2745		
n-Butylbenzene	Avg	0.812	0.936	0.992	0.989	0.955	0.849	0.922	14.447	0.9993	1.0000	8.1348		
1,2-Dibromo-3-Chloropropa	Avg	0.076	0.095	0.093	0.104	0.101	0.098	0.094	15.284	0.9999	1.0000	10.5722		
Hexachlorobutadiene	Avg	0.151	0.169	0.163	0.152	0.143	0.108	0.149	16.141	0.9950	1.0000	14.4168		
1,2,4-Trichlorobenzene	Avg	0.305	0.347	0.358	0.356	0.327	0.271	0.327	16.033	0.9981	0.9999	10.4679		
1,2,3-Trichlorobenzene	Avg	0.325	0.364	0.353	0.346	0.312	0.250	0.325	16.516	0.9975	0.9999	12.6553		
Naphthalene	Avg	1.001	1.161	1.167	1.153	1.055	0.815	1.059	16.289	0.9963	0.9999	12.9461		

Avg Rsd: 10.1964

Flags
a - failed the spcc criteria * - ccc compound
b - failed the ccc criteria ** - spcc compound
c - failed the minimum correlation coeff criteria(if applicab

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compoun

Form6
Initial Calibration

ATA\methods\mh01004.m *Instrument:* GCMS_1

Data File Analysis Date	Concentration	Calibration File Update Time
4 Oct 1998 18:28	5	Mon Oct 05 08:30:47 1998
4 Oct 1998 18:03	10	Mon Oct 05 08:30:49 1998
4 Oct 1998 17:39	20	Mon Oct 05 08:30:50 1998
4 Oct 1998 17:14	50	Mon Oct 05 08:30:52 1998
4 Oct 1998 16:49	100	Mon Oct 05 08:30:53 1998
4 Oct 1998 16:24	500	Mon Oct 05 08:30:55 1998

Response Factors

t	Level 1	2	3	4	5	6	Average RF	R.T.	Corr1	Corr2	%Rsd	*/**(limits)	Alternate Curve Conc
	2.163	2.215	1.827	1.773	1.774	1.395	1.358	3.650	0.9975	1.0000	16.1629	**(0.100)	
	1.123	1.519	1.180	1.179	1.253	1.005	1.210	4.241	0.9978	0.9998	14.2629		
	1.524	1.724	1.457	1.488	1.557	1.238	1.498	3.684	0.9975	0.9999	10.5327	*(30)	
	—	1.069	0.930	0.955	1.023	0.810	0.958	4.206	0.9975	0.9999	10.3393		
	2.114	2.375	1.890	1.892	1.949	1.619	1.973	4.519	0.9986	0.9999	12.8341		
	1.830	1.821	1.464	1.442	1.413	1.158	1.521	6.085	0.9984	1.0000	17.1112		
	0.129	0.168	0.139	0.150	0.165	0.124	0.146	5.163	0.9957	0.9998	12.6809		25 50 100 250 500 25
	0.373	0.471	0.362	0.391	0.399	0.303	0.383	6.293	0.9961	0.9999	14.2848		25 50 100 250 500 25
	0.414	0.442	0.318	0.356	0.357	0.258	0.357	5.250	0.9946	0.9998	18.4691		25 50 100 250 500 25
	4.456	4.848	4.013	3.977	3.919	3.162	4.063	6.119	0.9980	1.0000	13.9785		
	0.090	0.152	0.092	0.129	0.134	0.090	0.114	5.493	0.9898	0.9995	23.8184		25 50 100 250 500 25
	5.593	6.724	5.466	5.513	5.496	4.496	5.548	6.798	0.9982	1.0000	12.7518		
	2.619	2.909	2.357	2.310	2.275	1.907	2.396	5.372	0.9988	1.0000	14.1545	*(30)	
	3.266	3.905	3.069	3.108	3.210	2.497	3.176	6.224	0.9971	0.9999	14.1996		
	3.277	3.624	2.900	2.862	2.847	2.342	2.975	7.059	0.9984	1.0000	14.6360	**(0.100)	
	1.698	1.760	1.411	1.414	1.452	1.222	1.493	6.450	0.9988	0.9999	13.4294		
	2.715	3.212	2.583	2.707	2.651	2.175	2.690	7.876	0.9983	1.0000	12.2179		
	2.536	2.808	2.380	2.337	2.338	2.045	2.407	7.789	0.9993	1.0000	10.4911		
	2.329	2.653	2.144	2.182	2.168	1.843	2.221	8.781	0.9989	1.0000	12.0165		
	3.168	3.576	2.905	2.819	2.807	2.345	2.937	8.085	0.9987	1.0000	13.9854	*(30)	
	0.419	0.438	0.454	0.416	0.473	0.459	0.443	9.042	0.0000	0.0000	5.1562		30 30 30 30 30
	2.570	2.844	2.206	2.181	2.196	1.767	2.294	9.163	0.9980	0.9999	16.1548		
	—	0.127	0.124	0.129	0.137	0.099	0.123	7.650	0.9945	0.9999	11.5851		
	0.362	0.379	0.341	0.355	0.369	0.278	0.347	12.607	0.9959	0.9999	10.4335		
	0.576	0.612	0.584	0.513	0.509	0.425	0.536	8.589	0.9987	1.0000	12.7004		
	0.479	0.525	0.489	0.432	0.424	0.361	0.452	8.920	0.9990	1.0000	12.9134		
	0.611	0.741	0.697	0.693	0.718	0.558	0.670	7.041	0.9968	0.9999	10.4908		
	0.594	0.658	0.552	0.568	0.570	0.464	0.568	10.433	0.9981	1.0000	11.0781		
	0.266	0.291	0.241	0.246	0.250	0.198	0.249	10.537	0.9976	0.9999	12.3113		
	0.448	0.473	0.393	0.396	0.399	0.326	0.406	10.137	0.9982	1.0000	12.5702	*(30)	
	0.433	0.586	0.471	0.506	0.523	0.423	0.490	11.059	0.9978	0.9999	12.4698		
	0.354	0.397	0.325	0.326	0.330	0.271	0.334	9.894	0.9983	1.0000	12.4082		
	1.173	1.269	1.144	1.030	1.014	0.776	1.068	9.163	0.9968	1.0000	16.0469		
	0.404	0.417	0.403	0.431	0.440	0.348	0.407	12.399	0.9972	1.0000	7.9772		
	0.135	0.200	0.159	0.184	0.195	0.157	0.171	10.764	0.9975	0.9999	14.8593		
	0.372	0.434	0.409	0.445	0.460	0.368	0.414	11.633	0.9974	1.0000	9.3033		
	0.287	0.312	0.271	0.273	0.282	0.220	0.274	11.807	0.9970	0.9999	11.1742		
	0.491	0.530	0.473	0.483	0.484	0.372	0.472	12.086	0.9966	1.0000	11.2353		
	0.271	0.311	0.284	0.316	0.299	0.253	0.289	13.981	0.9985	1.0000	8.3720	**(0.100)	
	0.364	0.571	0.418	0.476	0.586	0.341	0.459	10.780	0.9792	0.9934	22.5029		
	—	0.148	0.149	0.192	0.245	0.142	0.175	11.772	0.9775	0.9986	24.9915		
	0.344	0.367	0.287	0.277	0.325	0.212	0.302	12.120	0.9893	0.9991	18.4261		
	0.462	0.534	0.402	0.424	0.462	0.293	0.430	14.086	0.9876	0.9995	18.7444	**(0.300)	
	0.257	0.242	0.259	0.242	0.301	0.241	0.257	11.320	0.0000	0.0000	8.9365		30 30 30 30 30
	0.743	0.816	0.659	0.663	0.777	0.499	0.694	11.407	0.9831	0.9991	16.3430	*(30)	
	0.350	0.393	0.324	0.319	0.332	0.231	0.325	13.042	0.9930	0.9998	16.3488		
	0.820	0.939	0.762	0.714	0.747	0.489	0.745	13.007	0.9900	0.9998	19.9380	**(0.300)	
	0.156	0.149	0.135	0.129	0.134	0.086	0.131	13.024	0.9831	0.9998	18.8213	*(30)	
	0.501	0.528	0.507	0.485	0.524	0.477	0.504	14.155	0.0000	0.0000	4.0694		30 30 30 30 30
	0.770	0.899	0.765	0.765	0.813	0.543	0.760	13.599	0.9903	0.9997	15.5930		
	0.488	0.569	0.460	0.449	0.469	0.294	0.455	13.094	0.9869	0.9997	19.7302		10 20 40 100 200 10
	0.468	0.562	0.463	0.461	0.505	0.355	0.469	13.547	0.9933	0.9997	14.4703		
	0.641	0.753	0.607	0.519	0.616	0.406	0.590	15.164	0.9904	0.9990	19.9153		
	0.736	0.826	0.656	0.568	0.668	0.421	0.646	15.269	0.9877	0.9989	21.6807		
	0.676	0.744	0.595	0.513	0.611	0.398	0.589	15.599	0.9898	0.9989	20.6683		
	0.922	1.090	0.910	0.834	0.940	0.609	0.893	13.877	0.9890	0.9997	17.5856		
	0.465	0.533	0.356	0.360	0.436	0.281	0.405	14.225	0.9887	0.9987	22.2598		
	0.456	0.534	0.440	0.356	0.408	—	0.439	14.451	0.9923	0.9972	14.9258		
	0.501	0.565	0.472	0.411	0.480	—	0.486	14.485	0.9922	0.9984	11.4853		
	1.428	1.617	1.319	1.126	1.327	0.733	1.258	14.260	0.9763	0.9985	24.0821		
	0.923	1.071	0.871	0.740	0.858	0.560	0.837	14.364	0.9900	0.9991	20.6942		
	0.978	1.151	0.973	0.824	0.970	0.593	0.917	14.381	0.9854	0.9989	20.8741		
	0.910	1.051	0.867	0.754	0.908	0.597	0.848	14.729	0.9901	0.9989	18.3385		
Avg	0.989	1.172	0.993	0.838	1.000	0.591	0.930	14.764	0.9825	0.9987	21.2049		
Avg	1.034	1.216	1.046	0.896	1.070	0.648	0.985	14.903	0.9844	0.9988	19.7010		
Avg	0.865	1.039	0.889	0.769	0.936	0.572	0.845	15.025	0.9850	0.9986	18.9632		
	0.828	0.982	0.859	0.740	0.897	0.543	0.808	15.390	0.9842	0.9987	18.8667		
	0.084	0.093	0.084	0.088	0.113	0.069	0.088	16.295	0.9823	0.9982	16.4936		
	0.292	0.328	0.259	0.205	0.271	—	0.271	17.094	0.9786	0.9963	16.7766		
Avg	0.463	0.560	0.458	0.395	0.479	0.273	0.438	17.008	0.9791	0.9983	22.0445		
Avg	0.458	0.544	0.416	0.381	0.460	0.248	0.418	17.478	0.9729	0.9981	23.8141		
Avg	0.911	1.106	0.852	0.797	0.975	0.498	0.857	17.269	0.9656	0.9977	23.9952		

Avg Rsd: 15.4844

ria * - ccc compound
a ** - spcc compound
correlation coeff criteria(if applicab

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compoun

Form7

CONTINUING CALIBRATION FORM 8260

Data file: fm0207.d

Calibration Name: CAL @ 20ppb

Calibration Date/Time: 7 Oct 1998 13:40

Instrument: gcms_1

Compound	Init R.F.	Cont R.T.	Cont R.F.	Conc Exp	Conc Found	%Diff	Limit(s)
Bromochloromethane		8.31	IS				
Chloromethane	1.8577	3.60	1.3001	20.00	14.00	30 P	0.100
Bromomethane	1.2101	4.21	1.0372	20.00	17.14	14	**
Vinyl Chloride	1.4980	3.69	1.2040	20.00	16.07	20 C	20
Chloroethane	0.9576	4.19	0.8386	20.00	17.51	12	**
Trichlorofluoromethane	1.9733	4.50	1.7747	20.00	17.99	10	**
Methylene Chloride	1.5213	6.07	1.5147	20.00	21.23	6.2	**
Acrolein	0.1458	5.15	0.1178	100.00	80.82	19	**
Acrylonitrile	0.3832	6.28	0.3292	100.00	85.91	14	**
Acetone	0.3573	5.24	0.3014	100.00	84.35	16	**
Carbon Disulfide	4.0626	6.10	3.7361	20.00	18.64	6.8	**
t-Butyl Alcohol	0.1144	5.50	0.1187	100.00	103.73	3.7	**
Di-isopropyl-ether	5.5482	6.78	4.6719	20.00	16.84	16	**
1,1-Dichloroethene	2.3960	5.36	2.3001	20.00	19.20	4.0 C	20
Methyl-t-butyl ether	3.1760	6.21	2.5485	20.00	16.05	20	**
1,1-Dichloroethane	2.9754	7.04	2.7694	20.00	18.62	6.9 P	0.100
trans-1,2-Dichloroethene	1.4929	6.44	1.4217	20.00	19.05	4.7	**
cis-1,2-Dichloroethene	2.6905	7.86	2.3256	20.00	17.29	14	**
2,2-Dichloropropane	2.4074	7.77	2.0393	20.00	16.94	15	**
1,1-Dichloropropene	2.2206	8.77	1.8937	20.00	17.06	15	**
Chloroform	2.9368	8.07	2.7592	20.00	18.79	6.1 C	20
1,2-Dichloroethane-d4	0.4433	9.03	0.4311	30.00	29.18	2.7	**
1,2-Dichloroethane	2.2940	9.15	2.1794	20.00	19.00	5.0	**
1,4-Difluorobenzene		9.46	IS				
2-Butanone	0.1234	7.64	0.1194	20.00	19.35	3.2	**
1,2-Dibromoethane	0.3474	12.59	0.3421	20.00	19.70	1.5	**
1,1,1-Trichloroethane	0.5364	8.57	0.5297	20.00	19.75	1.3	**
Carbon Tetrachloride	0.4515	8.91	0.4517	20.00	20.01	0.05	**
Vinyl Acetate	0.6698	7.03	0.6520	20.00	19.47	2.7	**
Bromodichloromethane	0.5676	10.44	0.5494	20.00	19.36	3.2	**
Dibromomethane	0.2487	10.52	0.2361	20.00	18.99	5.1	**
1,2-Dichloropropane	0.4057	10.12	0.3950	20.00	19.48	2.6 C	20
cis-1,3-Dichloropropene	0.4902	11.04	0.4924	20.00	20.09	0.45	**
Trichloroethene	0.3339	9.88	0.3356	20.00	20.10	0.50	**
Benzene	1.0676	9.15	1.0324	20.00	19.34	3.3	**
Dibromochloromethane	0.4072	12.38	0.4183	20.00	20.54	2.7	**
2-Chloroethylvinylether	0.1714	10.77	0.1745	20.00	20.36	1.8	**
trans-1,3-Dichloropropene	0.4145	11.52	0.4386	20.00	21.16	5.8	**
1,1,2-Trichloroethane	0.2742	11.81	0.2743	20.00	20.00	0.00	**
1,3-Dichloropropane	0.4719	12.07	0.4801	20.00	20.34	1.7	**
Bromoform	0.2890	13.97	0.3080	20.00	21.31	6.5 P	0.100
Chlorobenzene-d5		12.96	IS				
4-Methyl-2-Pentanone	0.4594	10.77	0.4519	20.00	19.67	1.6	**
2-Hexanone	0.1753	11.78	0.1686	20.00	19.24	3.8	**
Tetrachloroethene	0.3019	12.11	0.3066	20.00	20.31	1.5	**
1,1,2,2-Tetrachloroethane	0.4296	14.07	0.4255	20.00	19.81	0.95 P	0.300
Toluene-d8	0.2570	11.31	0.2449	30.00	28.59	4.7	**
Toluene	0.6938	11.41	0.7048	20.00	20.32	1.6 C	20
1,1,1,2-Tetrachloroethane	0.3247	13.03	0.3463	20.00	21.33	6.6	**
Chlorobenzene	0.7451	12.99	0.7893	20.00	21.19	6.0 P	0.300
Ethylbenzene	0.1315	13.01	0.1337	20.00	20.34	1.7 C	20
Bromofluorobenzene	0.5037	14.14	0.5184	30.00	30.88	2.9	**
Styrene	0.7602	13.58	0.7942	20.00	20.90	4.5	**
m&p-Xylenes	0.4549	13.08	0.4734	40.00	41.63	4.1	**
o-Xylene	0.4688	13.53	0.4980	20.00	21.24	6.2	**
1,3-Dichlorobenzene	0.5901	15.15	0.6253	20.00	21.19	6.0	**
1,4-Dichlorobenzene	0.6459	15.25	0.6938	20.00	21.48	7.4	**
1,2-Dichlorobenzene	0.5894	15.58	0.6330	20.00	21.48	7.4	**
Isopropylbenzene	0.8926	13.36	0.9384	20.00	21.02	5.1	**
1,2,3-Trichloropropane	0.4052	14.21	0.4075	20.00	20.11	0.55	**
4-Chlorotoluene	0.4390	14.47	0.4983	20.00	22.70	13	**
2-Chlorotoluene	0.4859	14.47	0.4983	20.00	20.51	2.6	**
n-Propylbenzene	1.2584	14.25	1.3643	20.00	21.68	8.4	**
Bromobenzene	0.8369	14.35	0.9074	20.00	21.69	8.5	**
1,3,5-Trimethylbenzene	0.9166	14.37	1.0022	20.00	21.87	9.4	**
t-Butylbenzene	0.8476	14.70	0.9328	20.00	22.01	10	**
1,2,4-Trimethylbenzene	0.9304	14.75	1.0394	20.00	22.34	12	**
sec-Butylbenzene	0.9849	14.89	1.0997	20.00	22.33	12	**
4-Isopropyltoluene	0.8451	15.01	0.9315	20.00	22.05	10	**
n-Butylbenzene	0.8080	15.38	0.8759	20.00	21.68	8.4	**
1,2-Dibromo-3-Chloropropane	0.0885	16.28	0.0980	20.00	22.15	11	**
Hexachlorobutadiene	0.2712	17.06	0.2530	20.00	18.65	6.8	**
1,2,4-Trichlorobenzene	0.4381	16.99	0.4983	20.00	22.75	14	**
1,2,3-Trichlorobenzene	0.4178	17.45	0.4533	20.00	21.70	8.5	**
Naphthalene	0.8568	17.25	0.9413	20.00	21.97	9.8	**
Dichlorodifluoromethane		N/Q					
1,2-Dioxane		N/Q					

C - Continuing Calibration Check Compound

P - System Performance Check Compound

N/O or N/Q - Not applicable for this run

** - Failed the C or P Criteria*

*** - No limit specified in method*

IS - Internal Standard

Note: 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found.

8260/8270 limits are compared against the %DIFF/R.F.

524.2 limits are compared against the %DIFF

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fl4899.d

Lab Sample ID: CAL @ 20ppb

Date/Time Analyzed: 24 Sep 1998 15:23

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	88219	6.51	520976	7.90	530144	11.64						
Lower Limit:	44110	6.01	260488	7.40	265072	11.14						
Upper Limit:	176438	7.01	1041952	8.40	1060288	12.14						

Data File	*Sample Number*	*Date/Time Analyzed*	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
fl4896.d	CAL @ 500ppb	24 Sep 1998 14:05	98636	6.52	654215	7.91	596889	11.65						
fl4897.d	CAL @ 100ppb	24 Sep 1998 14:31	102245	6.52	601656	7.90	600871	11.64						
fl4898.d	CAL @ 50ppb	24 Sep 1998 14:57	93427	6.52	561740	7.90	561712	11.64						
fl4900.d	CAL @ 10ppb	24 Sep 1998 15:49	82835	6.51	494430	7.90	501707	11.64						
fl4901.d	CAL @ 5ppb	24 Sep 1998 16:15	83051	6.51	498390	7.90	502799	11.64						
fl4902.d	DAILY BLANK(MEO	24 Sep 1998 16:47	65571	6.49	357852	7.87	449730	11.64						
fl4902a.d	DAILY BLANK(MEO	24 Sep 1998 17:22	67458	6.49	434002	7.89	524823	11.63						
fl4903.d	MBS(MEOH)	24 Sep 1998 17:49	84223	6.49	560470	7.88	580701	11.64						
fl4904.d	AA72254(MS)	24 Sep 1998 18:14	93225	6.50	625214	7.89	655653	11.64						
fl4905.d	AA72254(MSD)	24 Sep 1998 18:40	99143	6.50	689895	7.89	693355	11.64						
fl4906.d	AA72258	24 Sep 1998 19:06	88047	6.50	572642	7.90	628709	11.64						
fl4907.d	AA72405	24 Sep 1998 19:32	115737	6.50	709553	7.89	728805	11.64						
fl4908.d	AA72254	24 Sep 1998 19:58	116711	6.50	776322	7.90	786963	11.65						
fl4909.d	AA72255	24 Sep 1998 20:24	121906	6.51	721111	7.90	740868	11.64						
fl4910.d	AA72403	24 Sep 1998 20:49	122310	6.50	806703	7.89	803749	11.64						
fl4911.d	AA72257	24 Sep 1998 21:15	127261	6.50	803938	7.89	867274	11.65						
fl4912.d	AA72253(1/10)	24 Sep 1998 21:44	124215	6.52	765171	7.90	755796	11.65						
fl4913.d	AA72404(1/10)	24 Sep 1998 22:13	123661	6.52	634091	7.90	636974	11.65						
fl4914.d	AA72252(1/50)	24 Sep 1998 22:41	119156	6.52	696102	7.90	699516	11.64						
fl4915.d	AA72256(1/50)	24 Sep 1998 23:10	120610	6.52	622445	7.90	653364	11.64						
fl4916.d	AA72401	24 Sep 1998 23:36	126534	6.52	688699	7.90	712132	11.64						
fl4917.d	AA72402	25 Sep 1998 00:01	119722	6.52	700936	7.90	706710	11.64						
fl4918.d	AA72400	25 Sep 1998 00:30	104839	6.51	591775	7.90	618102	11.64						
fl4919.d	AA71776	25 Sep 1998 00:56	93428	6.50	699454	7.89	784460	11.64						
fl4920.d	AA72660	25 Sep 1998 10:03	72065	6.50	394331	7.89	432789	11.63						
fl4921.d	AA72658	25 Sep 1998 10:29	101662	6.51	610975	7.89	609358	11.64						
fl4922.d	AA72659	25 Sep 1998 10:55	109734	6.52	648881	7.90	631540	11.65						
fl4923.d	AA72657	25 Sep 1998 11:21	106428	6.52	649768	7.90	646512	11.65						
fl4924.d	AA72661	25 Sep 1998 11:46	111460	6.51	693873	7.90	688383	11.65						
fl4925.d	AA72662	25 Sep 1998 12:12	109039	6.52	668869	7.89	651935	11.64						
fl4926.d	C3-B-5 (ECOSYS)	25 Sep 1998 12:38	107566	6.51	645983	7.90	614438	11.65						
fl4927.d	C3-N-9 (ECOSYS)	25 Sep 1998 13:04	100043	6.52	593525	7.91	554462	11.65						
fl4928.d	C3-S-10 (ECOSYS)	25 Sep 1998 13:30	92647	6.52	600909	7.89	546047	11.65						
fl4929.d	C3-W-9 (ECOSYS)	25 Sep 1998 13:56	102431	6.52	605340	7.90	575975	11.65						
fl4930.d	BLANK	25 Sep 1998 14:21	115303	6.52	659097	7.90	633143	11.65						

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

Lower Limit = - 50% of internal standard of daily cal from previous cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fl4899.d

Lab Sample ID: CAL @ 20ppb

Date/Time Analyzed: 24 Sep 1998 15:23

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	88219	6.51	520976	7.90	530144	11.64						
Lower Limit:	44110	6.01	260488	7.40	265072	11.14						
Upper Limit:	176438	7.01	1041952	8.40	1060288	12.14						
Data File	*Sample Number*	*Date/Time Analyzed*										
fl4932.d	CAL @ 20ppb	25 Sep 1998 15:20	94273	6.52	556646	7.90	558065	11.64				
fl4933.d	DAILY BLANK(MEO	25 Sep 1998 15:54	75354	6.51	445894	7.89	529088	11.65				
fl4934.d	DAILY BLANK(MEO	25 Sep 1998 16:31	72618	6.50	441222	7.89	531683	11.64				
fl4935.d	C3-W-9	25 Sep 1998 16:57	84110	6.51	536241	7.90	555460	11.65				
fl4936.d	C3-B-5	25 Sep 1998 17:23	101774	6.50	682740	7.89	682129	11.64				
fl4937.d	C3-N-9	25 Sep 1998 17:49	103908	6.50	700555	7.89	683019	11.64				
fl4938.d	AA72658	25 Sep 1998 18:15	103856	6.50	662743	7.88	660044	11.64				
fl4939.d	AA72662	25 Sep 1998 18:41	95312	6.52	588153	7.89	559564	11.64				
fl4940.d	AA72659	25 Sep 1998 19:07	111995	6.51	659099	7.90	603393	11.64				
fl4941.d	AA72660	25 Sep 1998 19:32	109839	6.52	672813	7.89	622286	11.64				
fl4942.d	AA72657	25 Sep 1998 19:58	117390	6.51	692777	7.90	659486	11.64				
fl4943.d	AA72661	25 Sep 1998 20:24	111396	6.52	656217	7.89	627279	11.64				
fl4944.d	C3-S-10	25 Sep 1998 20:50	113771	6.52	658240	7.90	622709	11.64				
fl4945.d	BLANK	25 Sep 1998 21:16	115713	6.52	648058	7.89	617027	11.64				
fl4946.d	BLANK	25 Sep 1998 21:42	110273	6.51	623513	7.89	573001	11.64				
fl4947.d	EF1-1447(1/5)	25 Sep 1998 22:08	102434	6.51	593795	7.90	592543	11.63				
fl4948.d	AA71531(1/5)	25 Sep 1998 22:34	106812	6.51	610984	7.90	616656	11.64				
fl4949.d	AA72241(1/5)	25 Sep 1998 23:00	107976	6.51	625359	7.89	632908	11.64				
fl4950.d	AA72242(1/5)	25 Sep 1998 23:26	108722	6.52	624722	7.89	620796	11.64				
fl4951.d	AA72243(1/5)	25 Sep 1998 23:52	104976	6.51	597631	7.90	585530	11.64				
fl4952.d	AA72244(1/5)	26 Sep 1998 00:18	102800	6.52	584706	7.89	577865	11.64				
fl4953.d	AA72250(1/5)	26 Sep 1998 00:44	101543	6.51	582882	7.90	582831	11.64				
fl4954.d	MBS(MEOH)	26 Sep 1998 1:10	110415	6.51	638539	7.90	597815	11.64				
fl4955.d	C3-W-9(MS)	26 Sep 1998 1:36	96754	6.50	662394	7.89	645949	11.64				
fl4956.d	C3-W-9(MSD)	26 Sep 1998 2:02	94969	6.50	657153	7.89	646148	11.64				
fl4957.d	AA71878	26 Sep 1998 2:28	101451	6.49	654377	7.89	638996	11.64				
fl4958.d	AA72204	26 Sep 1998 2:54	114043	6.52	646198	7.90	602415	11.64				
fl4959.d	AA72205	26 Sep 1998 3:20	109856	6.52	620825	7.90	587879	11.64				
fl4960.d	AA72377	26 Sep 1998 3:46	107071	6.52	600173	7.91	558962	11.64				
fl4961.d	AA72580	26 Sep 1998 4:12	103084	6.52	577620	7.89	540230	11.64				
fl4962.d	AA72581	26 Sep 1998 4:38	101419	6.51	581260	7.90	538071	11.64				
fl4963.d	AA72615	26 Sep 1998 5:04	98217	6.52	561156	7.89	525774	11.64				
fl4964.d	AA72626	26 Sep 1998 5:30	98992	6.51	565066	7.90	531193	11.64				
fl4965.d	AA72627	26 Sep 1998 13:47	81899	6.51	495606	7.89	500207	11.64				
fl4966.d	AA72688	26 Sep 1998 14:13	87855	6.52	510966	7.89	483319	11.64				
fl4967.d	AA72689	26 Sep 1998 14:39	96486	6.51	549956	7.89	518765	11.64				

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

Lower Limit = - 50% of internal standard of daily cal from previous cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fm0110.d

Lab Sample ID: CAL @ 20 PPB

Date/Time Analyzed: 4 Oct 1998 17:39

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	226168	8.33	954237	9.48	912644	12.97						
Lower Limit:	113084	7.83	477119	8.98	456322	12.47						
Upper Limit:	452336	8.83	1908474	9.98	1825288	13.47						
Data File *Sample Number* *Date/Time Analyzed*												
fm0107.d CAL @ 500 PPB 4 Oct 1998 16:24	235027	8.33	1124252	9.48	1155588	12.98						
fm0108.d CAL @ 100 PPB 4 Oct 1998 16:49	225507	8.35	1043253	9.49	863516	12.97						
fm0109.d CAL @ 50 PPB 4 Oct 1998 17:14	224849	8.35	1028202	9.50	988761	12.97						
fm0111.d CAL @ 10 PPB 4 Oct 1998 18:03	181147	8.35	859612	9.49	729698	12.97						
fm0112.d CAL @ 5 PPB 4 Oct 1998 18:28	196668	8.33	894932	9.48	795756	12.97						
fm0113.d DAILY BLK(MEOH) 4 Oct 1998 18:53	158348	8.35	728888	9.48	608719	12.98						
fm0114.d DAILY BLK(A) 4 Oct 1998 19:18	220938	8.35	1036167	9.50	852004	12.97						
fm0115.d DAILY BLK(MEOH) 4 Oct 1998 19:42	187536	8.34	836977	9.48	712623	12.98						
fm0116.d AA72939(1/10) 4 Oct 1998 20:07	193813	8.33	874746	9.48	746372	12.98						
fm0117.d AA72940(1/10) 4 Oct 1998 20:32	225930	8.35	1004425	9.50	860130	12.97						
fm0118.d AA72942(1/10) 4 Oct 1998 20:57	173210	8.35	844961	9.48	717945	12.98						
fm0119.d AA72944(1/10) 4 Oct 1998 21:22	142755	8.35	637816	9.49	550128	12.97						
fm0120.d AA72946(1/10) 4 Oct 1998 21:47	188055	8.35	865427	9.50	754441	12.97						
fm0121.d AA72948(1/10) 4 Oct 1998 22:12	215543	8.35	983791	9.50	853289	12.98						
fm0122.d AA72949(1/10) 4 Oct 1998 22:37	237387	8.35	1064753	9.50	933714	12.97						
fm0123.d AA72950(1/10) 4 Oct 1998 23:02	191472	8.35	873890	9.49	758938	12.97						
fm0124.d AA72941(1/100) 4 Oct 1998 23:27	221952	8.35	1049578	9.50	862184	12.98						
fm0125.d AA72947(1/100) 4 Oct 1998 23:52	235839	8.35	1061006	9.50	899080	12.98						
fm0126.d AA72943(1/100) 5 Oct 1998 00:17	204984	8.35	847136	9.50	785255	12.97						
fm0127.d AA72945(1/100) 5 Oct 1998 00:42	188763	8.35	774900	9.49	752446	12.97						
fm0128.d AA72754 5 Oct 1998 1:07	223871	8.35	934267	9.50	889054	12.98						
fm0129.d AA72755 5 Oct 1998 1:32	231559	8.35	956652	9.50	923803	12.97						
fm0130.d AA72757 5 Oct 1998 1:57	190484	8.35	782232	9.50	762738	12.98						
fm0131.d AA72758 5 Oct 1998 2:21	227317	8.35	945454	9.49	917283	12.99						
fm0132.d AA72749(1/2) 5 Oct 1998 2:54	248428	8.33	1114309	9.48	1069167	12.97						
fm0133.d AA72941(MS) 5 Oct 1998 3:19	227382	8.35	1052698	9.50	896733	12.97						
fm0134.d AA72941(MSD) 5 Oct 1998 3:44	215946	8.35	901341	9.50	884973	12.98						
fm0135.d MBS(MEOH) 5 Oct 1998 4:09	190323	8.33	804170	9.48	769638	12.97						

S1 = Bromochloromethane @ 50 ng
S2 = 1,4-Difluorobenzene @ 50 ng
S3 = Chlorobenzene-d5 @ 50 ng
S4 = @ ng
S5 = @ ng
S6 = @ ng

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

Lower Limit = - 50% of internal standard of daily cal from previous cal.

Flags:

a - Indicates the compound failed the internal standard area criteria

b - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

000056

Form8

INTERNAL STANDARD FORM 8260

Evaluation Std Data File: fm0110.d

Lab Sample ID: CAL @ 20 PPB

Date/Time Analyzed: 4 Oct 1998 17:39

	S1 Area	S1 R.T.	S2 Area	S2 R.T.	S3 Area	S3 R.T.	S4 Area	S4 R.T.	S5 Area	S5 R.T.	S6 Area	S6 R.T.
Evaluation Std Areas/Retention Times:	226168	8.33	954237	9.48	912544	12.97						
Lower Limit:	113084	7.83	477119	8.98	456322	12.47						
Upper Limit:	452336	8.83	1908474	9.98	1825288	13.47						

Data File	*Sample Number*	*Date/Time Analyzed*											
fm0207.d	CAL @ 20ppb	7 Oct 1998 13:40	220970	8.31	996424	9.46	941460	12.96					
fm0209.d	DAILY BLANK(A)	7 Oct 1998 14:15	218727	8.31	1011778	9.46	940517	12.97					
fm0210.d	DAILY BLANK(MEO	7 Oct 1998 14:42	211695	8.31	1019085	9.46	919876	12.96					
fm0210a.d	AA72691(1/200)(OL	7 Oct 1998 15:06	225079	8.32	1022250	9.47	937975	12.96					
fm0211.d	AA72551	7 Oct 1998 15:38	213170	8.31	1046733	9.46	957944	12.97					
fm0211a.d	AA72691	7 Oct 1998 16:04	224748	8.33	1048912	9.48	884323	12.98					
fm0211b.d	AA72551	7 Oct 1998 16:34	213078	8.31	1058072	9.48	900439	12.97					
fm0211c.d	AA72691(1/200)	7 Oct 1998 16:59	236090	8.36	1075716	9.50	862513	12.99					
fm0212.d	AA72551	7 Oct 1998 17:24	203509	8.35	989975	9.49	931622	12.99					
fm0213.d	AA72548	7 Oct 1998 17:49	195238	8.33	968008	9.50	928935	12.98					
fm0214.d	MBS(MEOH)	7 Oct 1998 18:15	209931	8.35	983107	9.50	900895	12.98					
fm0215.d	AA72548(MS)	7 Oct 1998 18:40	200451	8.35	985003	9.50	931999	12.99					
fm0216.d	AA72548(MSD)	7 Oct 1998 19:05	200355	8.35	974235	9.50	908045	12.99					
fm0216a.d	AA72551	7 Oct 1998 19:30	197657	8.36	953745	9.49	932841	12.99					
fm0216b.d	AA72691(1/400)	7 Oct 1998 19:55	214298	8.35	980902	9.50	918377	12.99					
fm0217.d	AA73077	7 Oct 1998 20:20	216389	8.35	993701	9.49	899103	12.99					
fm0218.d	AA73079	7 Oct 1998 20:45	239243	8.35	962193	9.50	873203	13.00					
fm0219.d	AA73089	7 Oct 1998 21:10	216010	8.36	971279	9.51	902951	12.99					
fm0220.d	AA73093	7 Oct 1998 21:35	217862	8.36	1003956	9.51	931995	12.99					
fm0221.d	AA73117	7 Oct 1998 22:00	217863	8.36	1004534	9.51	919115	12.99					
fm0222.d	AA73118	7 Oct 1998 22:25	219557	8.36	977443	9.51	897114	12.99					
fm0223.d	AA73190	7 Oct 1998 22:50	218287	8.36	967540	9.51	900642	12.99					
fm0224.d	AA73072	7 Oct 1998 23:15	224137	8.37	975440	9.52	908649	13.00					
fm0225.d	AA73075	7 Oct 1998 23:41	215732	8.36	983153	9.51	899624	12.99					
fm0226.d	AA73076	8 Oct 1998 00:05	223483	8.37	993475	9.52	913758	13.00					
fm0227.d	AA73078	8 Oct 1998 00:30	222363	8.36	967651	9.51	897568	12.99					
fm0228.d	AA73088	8 Oct 1998 00:55	216524	8.37	983548	9.51	916851	12.99					
fm0229.d	AA73109	8 Oct 1998 1:20	219227	8.36	988383	9.51	909954	12.99					
fm0230.d	AA73112	8 Oct 1998 1:45	219257	8.36	973125	9.51	924706	12.99					
fm0231.d	AA73113	8 Oct 1998 2:10	232955	8.36	1056305	9.51	954057	12.99					
fm0232.d	AA73114	8 Oct 1998 2:35	225901	8.37	1045048	9.51	943155	12.99					
fm0233.d	AA73119	8 Oct 1998 3:00	233859	8.37	1036262	9.52	924190	13.00					
fm0234.d	AA73189	8 Oct 1998 3:25	229191	8.37	1024456	9.52	901477	13.00					
fm0235.d	AA73192	8 Oct 1998 3:51	234229	8.36	1014792	9.51	918954	12.99					
fm0236.d	AA73193	8 Oct 1998 4:16	225909	8.37	986942	9.52	887827	13.00					
fm0237.d	AA73194	8 Oct 1998 4:41	220840	8.37	988185	9.51	882217	12.99					
fm0238.d	AA73195	8 Oct 1998 5:06	217759	8.36	962290	9.51	863855	13.01					
fm0239.d	AA73110	8 Oct 1998 5:31	231174	8.36	985469	9.51	873723	12.99					
fm0240.d	AA73092(1/10)	8 Oct 1998 5:58	225378	8.37	958428	9.51	859769	12.99					
fm0241.d	AA73191(1/10)	8 Oct 1998 6:24	226873	8.37	996044	9.52	921468	13.00					
fm0242.d	AA73111(1/20)	8 Oct 1998 6:51	213975	8.36	948725	9.51	875253	12.99					
fm0243.d	AA73074(1/50)	8 Oct 1998 7:18	226337	8.37	1000055	9.52	939237	13.00					
fm0244.d	AA73115(1/50)	8 Oct 1998 7:44	207977	8.37	936668	9.52	867428	13.00					
fm0245.d	AA73073(1/100)	8 Oct 1998 8:11	217447	8.38	958584	9.53	821224	13.01					
fm0246.d	AA73197(1/100)	8 Oct 1998 8:37	240232	8.36	1086505	9.51	1000559	12.99					
fm0247.d	AA73196(1/100)	8 Oct 1998 10:02	120900	8.31	578525	9.46	823337	12.96					
fm0248.d	AA73116(1/1000)	8 Oct 1998 10:27	118904	8.31	594251	9.46	498948	12.94					
fm0249.d	AA73119	8 Oct 1998 10:52	123000	8.33	601881	9.48	569038	12.96					
fm0250.d	AA73116(1/100)	8 Oct 1998 11:16	175466	8.37	747538	9.52	623827	13.00					

S1 = Bromochloromethane @ 50 ng
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S3 = Chlorobenzene-d5 @ 50 ng
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QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard of daily cal from previous cal.

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Flags:

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Retention Times: Limit = within +/- 0.5 min of internal standard retention time from daily cal versus previous daily cal.

624/8260 MDL STUDY

MDL run @ 2 ppb Analyzed on 02/02/98 Analyst: Frank Instrument: GC/MS #3
Column: RH624 30m .25mmID .25um film thickness

Compound	fg7754.d	fg7755.d	fg7756.d	fg7757.d	fg7758.d	fg7759.d	fg7760.d	fg7761.d	fg7762.d		AVG	STDDEV	MDL
Dichlorodifluoromethane	2.35	2.41	2.33	2.49	2.42	2.37	2.4	2.23	2.21		2.3567	0.0901	0.251
Chloromethane	2.54	2.53	2.46	2.58	2.47	2.5	2.62	2.36	2.49		2.5167	0.0873	0.2529
Bromomethane	2.96	3.09	2.57	2.76	3.15	3.17	2.79	2.81	2.95		2.9167	0.2012	0.5825
Vinyl Chloride	2.38	2.57	2.41	2.49	2.77	2.55	2.57	2.43	2.43		2.5222	0.1309	0.3792
Chloroethane	2.41	2.59	2.25	2.49	2.59	2.27	2.33	2.42	2.34		2.41	0.1264	0.366
Trichlorofluoromethane	2.28	2.41	2.4	2.54	2.65	2.53	2.59	2.38	2.44		2.4689	0.1167	0.3379
Methylene Chloride	2.88	2.99	2.83	2.91	3.16	2.72	2.84	2.69	2.9		2.88	0.1404	0.4065
Acetone	20.37	23.11	23.54	24.36	25.54	23.96	25.09	23.23	23.46		23.529	1.4797	4.2853
Carbon Disulfide	2.7	2.77	2.6	2.7	2.82	2.82	2.6	2.54	2.51		2.6511	0.1036	0.3001
1,1-Dichloroethene	2.91	2.98	2.8	2.9	2.72	2.63	2.74	2.67	2.9		2.8056	0.1225	0.3547
1,1-Dichloroethane	2.4	2.43	2.28	2.54	2.43	2.25	2.38	2.33	2.31		2.3722	0.09	0.2606
Cis-1,2-Dichloroethene	1.61	1.78	1.79	1.97	1.94	1.93	1.66	1.78	1.6		1.7844	0.1413	0.4093
Trans-1,2-Dichloroethene	2.25	2.49	2.28	2.51	2.44	2.33	2.25	2.36	2.25		2.3511	0.1053	0.3049
Chloroform	2.26	2.43	2.31	2.6	2.59	2.45	2.49	2.36	2.37		2.4289	0.1174	0.34
1,2-Dichloroethane	2.25	2.35	2.42	2.41	2.26	2.3	2.31	2.16	2.2		2.2956	0.0885	0.2562
2-Butanone	1.2	1.16	1.53	1.09	1.15	1.69	1.14	1.58	1.24		1.3089	0.2259	0.6541
1,1,1-Trichloroethane	2.39	2.66	2.56	2.58	2.55	2.63	2.55	2.36	2.42		2.5222	0.1067	0.3091
Carbon Tetrachloride	1.96	1.93	1.87	1.88	1.93	1.94	1.73	1.68	1.7		1.8467	0.1118	0.3238
Vinyl Acetate	2.1	2.37	2.34	2.39	2.46	2.47	2.28	2.31	2.17		2.3211	0.1237	0.3583
Bromodichloromethane	2.24	2.28	2.22	2.33	2.27	2.35	2.06	2.21	2.17		2.2367	0.0875	0.2533
1,2-Dichloropropane	1.86	2.17	2.14	2.34	2.24	2.3	2.13	2.47	2.2		2.2056	0.1691	0.4898
cis-1,3-Dichloropropene	1.97	2.08	1.91	2	1.9	2.19	1.87	1.98	1.72		1.9578	0.1328	0.3847
Trichloroethene	2.06	2.12	2.36	2.28	2.07	2.28	2.16	2.18	2		2.1678	0.1194	0.3456
Dibromochloromethane	1.9	2.03	1.98	2.06	1.88	2.14	1.92	1.94	1.8		1.9611	0.1033	0.299
1,1,2-Trichloroethane	1.86	2.31	2.14	2.25	2.39	2.19	2.22	2.13	1.96		2.1611	0.1656	0.4795
Benzene	2.17	2.44	2.31	2.54	2.48	2.52	2.29	2.33	2.27		2.3722	0.1275	0.3691
Trans-1,3-Dichloropropene	1.74	1.84	1.83	1.86	1.96	1.89	1.83	1.64	1.62		1.8011	0.1131	0.3275
2-Chloroethylvinylether	8.73	10.76	11.46	11.66	11.55	12.25	10.76	10.82	11.48		11.052	1.0012	2.8994
Bromoform	1.78	1.85	1.8	1.77	1.67	1.56	1.76	1.71	1.37		1.6967	0.1487	0.4305
4-Methyl-2-Pentanone	1.66	1.91	1.78	2.04	2.07	2.13	1.72	1.84	1.67		1.8689	0.1781	0.5157
2-Hexanone	1.18	1.27	1.38	1.38	1.16	1.62	1.75	1.85	1.42		1.4456	0.2446	0.7085
Tetrachloroethene	2.1	2.21	2.14	2.03	2.38	2.22	2.18	1.99	2.05		2.1444	0.1197	0.3466
1,1,2,2-Tetrachloroethane	2.2	2.29	2.19	2.31	2.33	2.2	2.4	2.22	2.24		2.2644	0.0723	0.2094
Toluene	2.14	2.22	2.33	2.38	2.37	2.47	2.29	2.25	2.24		2.2989	0.0996	0.2883
Chlorobenzene	2.55	2.53	2.52	2.54	2.53	2.51	2.47	2.44	2.38		2.4967	0.0561	0.1625
Ethylbenzene	1.9	2	2.09	2.04	1.95	2.1	1.8	2.14	1.88		1.9889	0.1146	0.3319
Styrene	1.57	1.91	1.96	1.89	2.01	2	1.89	1.83	1.79		1.8722	0.1346	0.3898
m&p-Xylenes	4.32	4.3	4.35	4.27	4.31	4.6	4.18	4.31	4.14		4.3089	0.1291	0.3738
o-Xylene	1.68	1.95	1.8	1.77	1.89	1.95	1.75	1.78	1.78		1.8167	0.093	0.2693
1,3-Dichlorobenzene	2.09	2.16	2.19	2.17	2.15	2.15	2.02	2.17	2.13		2.1367	0.0522	0.1512
1,2-Dichlorobenzene	1.94	2.1	2.18	2.15	2.14	2.1	1.87	2.01	1.95		2.0489	0.1096	0.3174
1,4-Dichlorobenzene	1.96	2.13	2.14	2.11	2.1	1.99	1.97	2.06	2.07		2.0589	0.0694	0.2009
Methyl-t-butyl ether	2.5	2.55	2.6	2.54	2.61	2.57	2.54	2.39	2.46		2.5289	0.0697	0.2019
Di-isopropyl-ether	2.12	2.47	2.39	2.52	2.49	2.43	2.33	2.51	2.33		2.41	0.1422	0.4119
t-Butyl Alcohol	7.64	10.9	11.84	10.93	7.85	10.52	8.49	8.05	8.03		9.3611	1.6512	4.782
Acrolein	11.08	17.25	13.11	12.49	15.43	14.43	13.93	13.12	12.44		13.698	1.8297	5.2987
Acrylonitrile	12.93	13.18	12.85	12.85	13.75	13.5	12.99	14.1	13.39		13.282	0.4383	1.2707
Isopropylbenzene	1.43	1.59	1.58	1.48	1.5	1.48	1.55	1.49	1.4		1.5	0.064	0.1854
n-Propylbenzene	1.68	1.81	1.8	1.9	1.92	1.75	1.8	1.88	1.74		1.8089	0.0796	0.2305
1,3,5-Trimethylbenzene	1.49	1.74	1.73	1.66	1.75	1.56	1.46	1.71	1.5		1.6222	0.1191	0.345
t-Butylbenzene	1.51	1.82	1.43	1.47	1.55	1.71	1.34	1.75	1.33		1.5456	0.1779	0.5152
1,2,4-Trimethylbenzene	1.65	1.77	1.74	1.66	1.79	1.66	1.69	1.83	1.69		1.72	0.065	0.1882
sec-Butylbenzene	1.5	1.67	1.56	1.63	1.63	1.53	1.43	1.6	1.51		1.5622	0.0769	0.2228
4-Isopropyltoluene	1.52	1.66	1.58	1.61	1.65	1.48	1.44	1.51	1.42		1.5411	0.0882	0.2555
n-Butylbenzene	1.47	1.55	1.5	1.52	1.51	1.51	1.43	1.55	1.33		1.4856	0.0693	0.2007
Naphthalene	1.5	1.6	1.69	1.71	1.75	1.66	1.62	1.61	1.6		1.6378	0.0741	0.2147

North "Hot Spot" Phase II

Data Package

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Paul Ciminello

Report Date: 05/03/99

Re: Client Project ID: LM97145.40
York Project No.: 99040527

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ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 05/03/99
Client Project ID: LM97145.40

York Project No.: 99040527

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Paul Ciminello

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 04/27/99. The project was identifed as your project "LM97145.40 ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			C3 SW-6' (2')		C3 SW-B6' (2.5')	
York ID			99040527-01		99040527-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	12000	Not detected	1200
Bis(2-chloroethoxy)methane			Not detected	12000	Not detected	1200
Bis(2-chloroisopropyl)ether			Not detected	12000	Not detected	1200
Bromobenzene			Not detected	1200	Not detected	120
Bromodichloromethane			Not detected	1200	Not detected	120
Bromoform			Not detected	1200	Not detected	120
Bromomethane			Not detected	12000	Not detected	1200
Carbon tetrachloride			Not detected	1200	Not detected	120
Chloroacetaldehyde			Not detected	12000	Not detected	1200
Chlorobenzene			Not detected	1200	Not detected	120
Chloroethane			Not detected	12000	Not detected	1200
Chloroform			Not detected	1200	Not detected	120
1-Chlorohexane			Not detected	1200	Not detected	120
2-Chloroethylvinyl ether			Not detected	1200	Not detected	120

YORK

Client Sample ID			C3 SW-6' (2')		C3 SW-B6' (2.5')	
York ID			99040527-01		99040527-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloromethane			Not detected	12000	Not detected	1200
Chloromethyl methyl ether			Not detected	1200	Not detected	120
2-Chlorotoluene			Not detected	1200	Not detected	120
4-Chlorotoluene			Not detected	1200	Not detected	120
Dibromochloromethane			Not detected	1200	Not detected	120
Dibromomethane			Not detected	1200	Not detected	120
1,2-Dichlorobenzene			Not detected	1200	Not detected	120
1,3-Dichlorobenzene			Not detected	1200	Not detected	120
1,4-Dichlorobenzene			Not detected	1200	Not detected	120
Dichlorodifluoromethane			Not detected	1200	Not detected	120
1,1-Dichloroethane			Not detected	1200	Not detected	120
1,2-Dichloroethane			Not detected	1200	Not detected	120
1,1-Dichloroethylene			Not detected	1200	Not detected	120
1,2-Dichloroethylene (Total)			Not detected	1200	Not detected	120
1,2-Dichloropropane			Not detected	1200	Not detected	120
cis-1,3-Dichloropropylene			Not detected	1200	Not detected	120
trans-1,3-Dichloropropylene			Not detected	1200	Not detected	120
Methylene chloride			Not detected	1200	Not detected	120
1,1,1,2-Tetrachloroethane			Not detected	1200	Not detected	120
1,1,2,2-Tetrachloroethane			Not detected	1200	Not detected	120
Tetrachloroethylene			420000	1200	7200	120
1,1,1-Trichloroethane			Not detected	1200	Not detected	120
1,1,2-Trichloroethane			Not detected	1200	Not detected	120
Trichloroethylene			Not detected	1200	Not detected	120
Trichlorofluoromethane			Not detected	1200	Not detected	120
Trichloropropane			Not detected	1200	Not detected	120
Vinyl chloride			Not detected	12000	Not detected	1200

Client Sample ID			C5 SW-9' (2')		C4 SW-5' (0-6)	
York ID			99040527-03		99040527-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	57	Not detected	58
Bis(2-chloroethoxy)methane			Not detected	57	Not detected	58
Bis(2-chloroisopropyl)ether			Not detected	57	Not detected	58
Bromobenzene			Not detected	5.7	Not detected	5.8
Bromodichloromethane			Not detected	5.7	Not detected	5.8
Bromoform			Not detected	5.7	Not detected	5.8
Bromomethane			Not detected	57	Not detected	58
Carbon tetrachloride			Not detected	5.7	Not detected	5.8
Chloroacetaldehyde			Not detected	57	Not detected	58
Chlorobenzene			Not detected	5.7	Not detected	5.8
Chloroethane			Not detected	57	Not detected	58
Chloroform			Not detected	5.7	Not detected	5.8
1-Chlorohexane			Not detected	5.7	Not detected	5.8
2-Chloroethylvinyl ether			Not detected	5.7	Not detected	5.8

YORK

Client Sample ID			C5SW-9' (2')		C4 SW-5' (0-6)	
York ID			99040527-03		99040527-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloromethane			Not detected	57	Not detected	58
Chloromethyl methyl ether			Not detected	5.7	Not detected	5.8
2-Chlorotoluene			Not detected	5.7	Not detected	5.8
4-Chlorotoluene			Not detected	5.7	Not detected	5.8
Dibromochloromethane			Not detected	5.7	Not detected	5.8
Dibromomethane			Not detected	5.7	Not detected	5.8
1,2-Dichlorobenzene			Not detected	5.7	Not detected	5.8
1,3-Dichlorobenzene			Not detected	5.7	Not detected	5.8
1,4-Dichlorobenzene			Not detected	5.7	Not detected	5.8
Dichlorodifluoromethane			Not detected	5.7	Not detected	5.8
1,1-Dichloroethane			Not detected	5.7	Not detected	5.8
1,2-Dichloroethane			Not detected	5.7	Not detected	5.8
1,1-Dichloroethylene			Not detected	5.7	Not detected	5.8
1,2-Dichloroethylene (Total)			Not detected	5.7	Not detected	5.8
1,2-Dichloropropane			Not detected	5.7	Not detected	5.8
cis-1,3-Dichloropropylene			Not detected	5.7	Not detected	5.8
trans-1,3-Dichloropropylene			Not detected	5.7	Not detected	5.8
Methylene chloride			Not detected	5.7	Not detected	5.8
1,1,1,2-Tetrachloroethane			Not detected	5.7	Not detected	5.8
1,1,2,2-Tetrachloroethane			Not detected	5.7	Not detected	5.8
Tetrachloroethylene			50	5.7	160	5.8
1,1,1-Trichloroethane			Not detected	5.7	Not detected	5.8
1,1,2-Trichloroethane			Not detected	5.7	Not detected	5.8
Trichloroethylene			Not detected	5.7	Not detected	5.8
Trichlorofluoromethane			Not detected	5.7	Not detected	5.8
Trichloropropane			Not detected	5.7	Not detected	5.8
Vinyl chloride			Not detected	57	Not detected	58

Client Sample ID			C4 SW-9' (0-6)	
York ID			99040527-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---
Benzyl chloride			Not detected	59
Bis(2-chloroethoxy)methane			Not detected	59
Bis(2-chloroisopropyl)ether			Not detected	59
Bromobenzene			Not detected	5.9
Bromodichloromethane			Not detected	5.9
Bromoform			Not detected	5.9
Bromomethane			Not detected	59
Carbon tetrachloride			Not detected	5.9
Chloroacetaldehyde			Not detected	59
Chlorobenzene			Not detected	5.9
Chloroethane			Not detected	59
Chloroform			Not detected	5.9
1-Chlorohexane			Not detected	5.9
2-Chloroethylvinyl ether			Not detected	5.9

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Client Sample ID			C4 SW-9' (0-6)	
York ID			99040527-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Chloromethane			Not detected	59
Chloromethyl methyl ether			Not detected	5.9
2-Chlorotoluene			Not detected	5.9
4-Chlorotoluene			Not detected	5.9
Dibromochloromethane			Not detected	5.9
Dibromomethane			Not detected	5.9
1,2-Dichlorobenzene			Not detected	5.9
1,3-Dichlorobenzene			Not detected	5.9
1,4-Dichlorobenzene			Not detected	5.9
Dichlorodifluoromethane			Not detected	5.9
1,1-Dichloroethane			Not detected	5.9
1,2-Dichloroethane			Not detected	5.9
1,1-Dichloroethylene			Not detected	5.9
1,2-Dichloroethylene (Total)			9	5.9
1,2-Dichloropropane			Not detected	5.9
cis-1,3-Dichloropropylene			Not detected	5.9
trans-1,3-Dichloropropylene			Not detected	5.9
Methylene chloride			Not detected	5.9
1,1,1,2-Tetrachloroethane			Not detected	5.9
1,1,2,2-Tetrachloroethane			Not detected	5.9
Tetrachloroethylene			300	5.9
1,1,1-Trichloroethane			Not detected	5.9
1,1,2-Trichloroethane			Not detected	5.9
Trichloroethylene			18	5.9
Trichlorofluoromethane			Not detected	5.9
Trichloropropane			Not detected	5.9
Vinyl chloride			Not detected	59

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: Robert Q. Bradley

Robert Q. Bradley
Managing Director

Date: 05/03/99

YORK

YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature)
Ecosystems Strategies	Paul Cimino	Johanna	CM97145.40	Jay and Paul
				Jay Kaplan (Name Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	C3 SW-6' (2')	4/27/99		X			8010	1-2oz
	C3 SW-B6' (2.5')	↓		↓			8010	1-2oz
	C5 SW-9' (2')						8010	1-2oz
	C4 SW-5' (0-6")						8010	1-2oz
	C4 SW-9' (0-6")	↓		X			8010	1-2oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by: Jay Kaplan	Date/Time: 4/27/99 1:20 pm
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
Sample Received by: R. Van Deusen	Date/Time: 4-27-99 1:20	Sample Received in LAB by	Date/Time

Comments/Special Instructions

Turn-Around Time: X Standard ___ RUSH(define)_____

Client Sample ID			SP-1		SP-2	
York Sample ID			99090083-01		99090083-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
Tetrachloroethylene			4400	10	12000	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Trichloropropane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	100	Not detected	100

Client Sample ID			SP-3		C-2 (6') S-1	
York Sample ID			99090083-03		99090083-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			SP-3		C-2 (6') S-1	
York Sample ID			99090083-03		99090083-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			1200	5.0	79	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			C-2 (6') S-2		C-3 (5') S	
York Sample ID			99090083-05		99090083-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	50	Not detected	100
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	100
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	100
Bromobenzene			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	50	Not detected	100
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chloroacetaldehyde			Not detected	50	Not detected	100
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	50	Not detected	100
Chloroform			Not detected	5.0	Not detected	10
1-Chlorohexane			Not detected	5.0	Not detected	10
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	10
Chloromethane			Not detected	50	Not detected	100
Chloromethyl methyl ether			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10

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Client Sample ID			C-2 (6') S-2		C-3 (5') S	
York Sample ID			99090083-05		99090083-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Methylene chloride			Not detected	5.0	Not detected	10
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
Tetrachloroethylene			350	5.0	890	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	31	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Trichloropropane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	50	Not detected	100

Client Sample ID			C-3 (7') S		C-4 (6') S-1	
York Sample ID			99090083-07		99090083-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	50	Not detected	100
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	100
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	100
Bromobenzene			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	50	Not detected	100
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chloroacetaldehyde			Not detected	50	Not detected	100
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	50	Not detected	100
Chloroform			Not detected	5.0	Not detected	10
1-Chlorohexane			Not detected	5.0	Not detected	10
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	10
Chloromethane			Not detected	50	Not detected	100
Chloromethyl methyl ether			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10

YORK

Client Sample ID			C-3 (7') S		C-4 (6') S-1	
York Sample ID			99090083-07		99090083-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Methylene chloride			Not detected	5.0	Not detected	10
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
Tetrachloroethylene			53	5.0	322	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	Not detected	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Trichloropropane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	50	Not detected	100

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____ Date: 9/10/1999

Robert Q. Bradley
Managing Director

YORK

South "Hot Spot" Phase I

Data Package

Hampton-Clarke, Inc.
veritech laboratories

175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

ECOSYSTEMS STRATEGIES

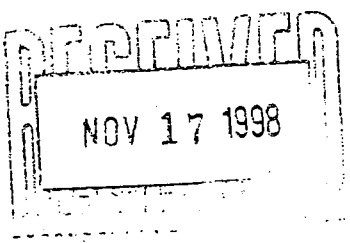
Format: NYDOH-S

Project: Middletown
PO Number:

Samples submitted on: 10/21/98

AA74108
AA74109
AA74110
AA74111
AA74112
AA74113

Date: 11/17/98
HCI Project: 10221848



Veritech Sample Key

17-Nov-98

Lab#	SampleID
AA74108	S-S-10
AA74109	S-E-10
AA74110	S-B-12
AA74111	S-W-10
AA74112	FB
AA74113	S-N-10

Laboratory Chronicle

veritech

Lab Number	Sample Description
AA74108	S-S-10

% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				10/23/98	JL	SM 2540G

Volatile Organics (no search) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
Chloroform				10/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				10/29/98	GVC	EPA 8260
Methylene Chloride				10/29/98	GVC	EPA 8260
1,2-Dichloroethane				10/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
1,1-Dichloroethane				10/29/98	GVC	EPA 8260
1,1-Dichloroethene				10/29/98	GVC	EPA 8260
Chlorobenzene				10/29/98	GVC	EPA 8260
Bromodichloromethane				10/29/98	GVC	EPA 8260
Trichlorofluoromethane				10/29/98	GVC	EPA 8260
2-Chloroethylvinylether				10/29/98	GVC	EPA 8260
1,2-Dichloropropane				10/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Trichloroethene				10/29/98	GVC	EPA 8260
Dibromochloromethane				10/29/98	GVC	EPA 8260
Chloroethane				10/29/98	GVC	EPA 8260
Carbon Tetrachloride				10/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				10/29/98	GVC	EPA 8260
Bromoform				10/29/98	GVC	EPA 8260
Tetrachloroethene				10/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				10/29/98	GVC	EPA 8260
Chloromethane				10/29/98	GVC	EPA 8260
Bromomethane				10/29/98	GVC	EPA 8260
Vinyl Chloride				10/29/98	GVC	EPA 8260

Lab Number	Sample Description
AA74109	S-E-10

% Solids SM2540G	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
% Solids				10/23/98	JL	SM 2540G

Volatile Organics (no search) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
Chloroethane				10/29/98	GVC	EPA 8260
Bromomethane				10/29/98	GVC	EPA 8260
Trichlorofluoromethane				10/29/98	GVC	EPA 8260
Trichloroethene				10/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Tetrachloroethene				10/29/98	GVC	EPA 8260
Methylene Chloride				10/29/98	GVC	EPA 8260
Dibromochloromethane				10/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Chloromethane				10/29/98	GVC	EPA 8260
Chloroform				10/29/98	GVC	EPA 8260
Vinyl Chloride				10/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				10/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				10/29/98	GVC	EPA 8260
Chlorobenzene				10/29/98	GVC	EPA 8260

Bromoform	10/29/98	GVC	EPA 8260
Bromodichloromethane	10/29/98	GVC	EPA 8260
2-Chloroethylvinylether	10/29/98	GVC	EPA 8260
1,4-Dichlorobenzene	10/29/98	GVC	EPA 8260
1,3-Dichlorobenzene	10/29/98	GVC	EPA 8260
1,2-Dichloropropane	10/29/98	GVC	EPA 8260
1,2-Dichlorobenzene	10/29/98	GVC	EPA 8260
1,2-Dichloroethane	10/29/98	GVC	EPA 8260
1,1-Dichloroethene	10/29/98	GVC	EPA 8260
1,1-Dichloroethane	10/29/98	GVC	EPA 8260
1,1,2-Trichloroethane	10/29/98	GVC	EPA 8260
Carbon Tetrachloride	10/29/98	GVC	EPA 8260

Lab Number AA74110 **Sample Description** S-B-12

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				10/23/98	JL	SM 2540G

Volatile Organics (no search) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Carbon Tetrachloride				10/29/98	GVC	EPA 8260
Tetrachloroethene				10/29/98	GVC	EPA 8260
Methylene Chloride				10/29/98	GVC	EPA 8260
Dibromochloromethane				10/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				10/29/98	GVC	EPA 8260
Chloromethane				10/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Chloroform				10/29/98	GVC	EPA 8260
Chloroethane				10/29/98	GVC	EPA 8260
Chlorobenzene				10/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Bromomethane				10/29/98	GVC	EPA 8260
Bromoform				10/29/98	GVC	EPA 8260
Bromodichloromethane				10/29/98	GVC	EPA 8260
2-Chloroethylvinylether				10/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,2-Dichloropropane				10/29/98	GVC	EPA 8260
1,2-Dichloroethane				10/29/98	GVC	EPA 8260
1,1-Dichloroethene				10/29/98	GVC	EPA 8260
1,1-Dichloroethane				10/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				10/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				10/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				10/29/98	GVC	EPA 8260
Vinyl Chloride				10/29/98	GVC	EPA 8260
Trichlorofluoromethane				10/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				10/29/98	GVC	EPA 8260
Trichloroethene				10/29/98	GVC	EPA 8260

Lab Number AA74111 **Sample Description** S-W-10

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				10/23/98	JL	SM 2540G

Volatile Organics (no search) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Tetrachloroethene				10/29/98	GVC	EPA 8260
Chlorobenzene				10/29/98	GVC	EPA 8260
Chloroethane				10/29/98	GVC	EPA 8260
Chloroform				10/29/98	GVC	EPA 8260
Chloromethane				10/29/98	GVC	EPA 8260

Carbon Tetrachloride	10/29/98	GVC	EPA 8260
Dibromochloromethane	10/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene	10/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene	10/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene	10/29/98	GVC	EPA 8260
Trichloroethene	10/29/98	GVC	EPA 8260
Trichlorofluoromethane	10/29/98	GVC	EPA 8260
Vinyl Chloride	10/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene	10/29/98	GVC	EPA 8260
1,2-Dichloroethane	10/29/98	GVC	EPA 8260
Methylene Chloride	10/29/98	GVC	EPA 8260
Bromomethane	10/29/98	GVC	EPA 8260
1,1,2-Trichloroethane	10/29/98	GVC	EPA 8260
1,1-Dichloroethene	10/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane	10/29/98	GVC	EPA 8260
1,2-Dichlorobenzene	10/29/98	GVC	EPA 8260
1,2-Dichloropropane	10/29/98	GVC	EPA 8260
1,1,1-Trichloroethane	10/29/98	GVC	EPA 8260
1,3-Dichlorobenzene	10/29/98	GVC	EPA 8260
1,4-Dichlorobenzene	10/29/98	GVC	EPA 8260
2-Chloroethylvinylether	10/29/98	GVC	EPA 8260
Bromodichloromethane	10/29/98	GVC	EPA 8260
Bromoform	10/29/98	GVC	EPA 8260
1,1-Dichloroethane	10/29/98	GVC	EPA 8260

Lab Number AA74112 **Sample Description** FB

Volatile Organics (no search) 8260	Preparation Date	By	Method	Analysis Date	By	Method
Chloroform				10/29/98	GVC	EPA 8260
Methylene Chloride				10/29/98	GVC	EPA 8260
Chloromethane				10/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Dibromochloromethane				10/29/98	GVC	EPA 8260
Tetrachloroethene				10/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Trichloroethene				10/29/98	GVC	EPA 8260
Vinyl Chloride				10/29/98	GVC	EPA 8260
Chlorobenzene				10/29/98	GVC	EPA 8260
Carbon Tetrachloride				10/29/98	GVC	EPA 8260
Trichlorofluoromethane				10/29/98	GVC	EPA 8260
1,1-Dichloroethane				10/29/98	GVC	EPA 8260
Chloroethane				10/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				10/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				10/29/98	GVC	EPA 8260
1,1-Dichloroethene				10/29/98	GVC	EPA 8260
1,2-Dichloroethane				10/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,2-Dichloropropane				10/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				10/29/98	GVC	EPA 8260
2-Chloroethylvinylether				10/29/98	GVC	EPA 8260
Bromodichloromethane				10/29/98	GVC	EPA 8260
Bromoform				10/29/98	GVC	EPA 8260
Bromomethane				10/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				10/29/98	GVC	EPA 8260

Lab Number AA74113 **Sample Description** S-N-10

% Solids SM2540G	Preparation Date	By	Method	Analysis Date	By	Method
% Solids				10/23/98	JL	SM 2540G

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Volatile Organics (no search) 8260	Preparation Date	Preparation By	Preparation Method	Analysis Date	Analysis By	Analysis Method
Dibromochloromethane				10/29/98	GVC	EPA 8260
Chloroethane				10/29/98	GVC	EPA 8260
Chloroform				10/29/98	GVC	EPA 8260
Chloromethane				10/29/98	GVC	EPA 8260
Cis-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Cis-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Methylene Chloride				10/29/98	GVC	EPA 8260
Tetrachloroethene				10/29/98	GVC	EPA 8260
Trans-1,2-Dichloroethene				10/29/98	GVC	EPA 8260
Trans-1,3-Dichloropropene				10/29/98	GVC	EPA 8260
Chlorobenzene				10/29/98	GVC	EPA 8260
Trichlorofluoromethane				10/29/98	GVC	EPA 8260
1,2-Dichlorobenzene				10/29/98	GVC	EPA 8260
Trichloroethene				10/29/98	GVC	EPA 8260
Carbon Tetrachloride				10/29/98	GVC	EPA 8260
Bromomethane				10/29/98	GVC	EPA 8260
Bromoform				10/29/98	GVC	EPA 8260
Bromodichloromethane				10/29/98	GVC	EPA 8260
2-Chloroethylvinylether				10/29/98	GVC	EPA 8260
1,4-Dichlorobenzene				10/29/98	GVC	EPA 8260
1,2-Dichloropropane				10/29/98	GVC	EPA 8260
Vinyl Chloride				10/29/98	GVC	EPA 8260
1,2-Dichloroethane				10/29/98	GVC	EPA 8260
1,1-Dichloroethene				10/29/98	GVC	EPA 8260
1,1-Dichloroethane				10/29/98	GVC	EPA 8260
1,1,2-Trichloroethane				10/29/98	GVC	EPA 8260
1,1,2,2-Tetrachloroethane				10/29/98	GVC	EPA 8260
1,1,1-Trichloroethane				10/29/98	GVC	EPA 8260
1,3-Dichlorobenzene				10/29/98	GVC	EPA 8260

CT #: PH-0671
MA #: NJ386
NJ #: 14622
NY #: 11408
PA #: 68-463

Report Of Analysis
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To: ECOSYSTEMS STRATEGIES
60 WORRALL AVE.
POUGHKEEPSIE NY 12603

Attention: Zywia Wojnar
Project: Middletown

Date Collected: 10/21/98
Date Submitted: 10/22/98
Date Reported: 11/17/98

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA74108	S-S-10					
		% Solids SM2540G				
			% Solids	Percent		93
		Volatile Organics (no search) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	670	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	670	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	670	ND
			1,1-Dichloroethane	ug/Kg(PPB)	670	ND
			1,1-Dichloroethene	ug/Kg(PPB)	670	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	670	ND
			1,2-Dichloroethane	ug/Kg(PPB)	670	ND
			1,2-Dichloropropane	ug/Kg(PPB)	670	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	670	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	670	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	670	ND
			Bromodichloromethane	ug/Kg(PPB)	670	ND
			Bromoform	ug/Kg(PPB)	670	ND
			Bromomethane	ug/Kg(PPB)	670	ND
			Carbon Tetrachloride	ug/Kg(PPB)	670	ND
			Chlorobenzene	ug/Kg(PPB)	670	ND
			Chloroethane	ug/Kg(PPB)	670	ND
			Chloroform	ug/Kg(PPB)	670	ND
			Chloromethane	ug/Kg(PPB)	670	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	670	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	670	ND
			Dibromochloromethane	ug/Kg(PPB)	670	ND
			Methylene Chloride	ug/Kg(PPB)	670	ND
			Tetrachloroethene	ug/Kg(PPB)	670	32000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	670	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	670	ND
			Trichloroethene	ug/Kg(PPB)	670	ND
			Trichlorofluoromethane	ug/Kg(PPB)	670	ND
			Vinyl Chloride	ug/Kg(PPB)	670	ND

MDL used for 600 and 200 series methods. POL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA74109	S-E-10					
		% Solids SM2540G				
			% Solids	Percent		89
		Volatile Organics (no search) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	700	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	700	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	700	ND
			1,1-Dichloroethane	ug/Kg(PPB)	700	ND
			1,1-Dichloroethene	ug/Kg(PPB)	700	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	700	ND
			1,2-Dichloroethane	ug/Kg(PPB)	700	ND
			1,2-Dichloropropane	ug/Kg(PPB)	700	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	700	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	700	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	700	ND
			Bromodichloromethane	ug/Kg(PPB)	700	ND
			Bromoform	ug/Kg(PPB)	700	ND
			Bromomethane	ug/Kg(PPB)	700	ND
			Carbon Tetrachloride	ug/Kg(PPB)	700	ND
			Chlorobenzene	ug/Kg(PPB)	700	ND
			Chloroethane	ug/Kg(PPB)	700	ND
			Chloroform	ug/Kg(PPB)	700	ND
			Chloromethane	ug/Kg(PPB)	700	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	700	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	700	ND
			Dibromochloromethane	ug/Kg(PPB)	700	ND
			Methylene Chloride	ug/Kg(PPB)	700	ND
			Tetrachloroethene	ug/Kg(PPB)	700	7500
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	700	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	700	ND
			Trichloroethene	ug/Kg(PPB)	700	ND
			Trichlorofluoromethane	ug/Kg(PPB)	700	ND
			Vinyl Chloride	ug/Kg(PPB)	700	ND
AA74110	S-B-12					
		% Solids SM2540G				
			% Solids	Percent		86
		Volatile Organics (no search) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	730	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	730	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	730	ND
			1,1-Dichloroethane	ug/Kg(PPB)	730	ND
			1,1-Dichloroethene	ug/Kg(PPB)	730	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	730	ND
			1,2-Dichloroethane	ug/Kg(PPB)	730	ND
			1,2-Dichloropropane	ug/Kg(PPB)	730	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	730	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	730	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	730	ND
			Bromodichloromethane	ug/Kg(PPB)	730	ND
			Bromoform	ug/Kg(PPB)	730	ND
			Bromomethane	ug/Kg(PPB)	730	ND
			Carbon Tetrachloride	ug/Kg(PPB)	730	ND
			Chlorobenzene	ug/Kg(PPB)	730	ND
			Chloroethane	ug/Kg(PPB)	730	ND
			Chloroform	ug/Kg(PPB)	730	ND
			Chloromethane	ug/Kg(PPB)	730	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	730	600J
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	730	ND
			Dibromochloromethane	ug/Kg(PPB)	730	ND
			Methylene Chloride	ug/Kg(PPB)	730	ND
			Tetrachloroethene	ug/Kg(PPB)	730	55000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	730	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	730	ND
			Trichloroethene	ug/Kg(PPB)	730	ND
			Trichlorofluoromethane	ug/Kg(PPB)	730	ND
			Vinyl Chloride	ug/Kg(PPB)	730	ND

MDL used for 600 and 200 series methods. POL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA74111	S-W-10					
		% Solids SM2540G				
			% Solids	Percent		92
		Volatile Organics (no search) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	680	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	680	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	680	ND
			1,1-Dichloroethane	ug/Kg(PPB)	680	ND
			1,1-Dichloroethene	ug/Kg(PPB)	680	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	680	ND
			1,2-Dichloroethane	ug/Kg(PPB)	680	ND
			1,2-Dichloropropane	ug/Kg(PPB)	680	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	680	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	680	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	680	ND
			Bromodichloromethane	ug/Kg(PPB)	680	ND
			Bromoform	ug/Kg(PPB)	680	ND
			Bromomethane	ug/Kg(PPB)	680	ND
			Carbon Tetrachloride	ug/Kg(PPB)	680	ND
			Chlorobenzene	ug/Kg(PPB)	680	ND
			Chloroethane	ug/Kg(PPB)	680	ND
			Chloroform	ug/Kg(PPB)	680	ND
			Chloromethane	ug/Kg(PPB)	680	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	680	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	680	ND
			Dibromochloromethane	ug/Kg(PPB)	680	ND
			Methylene Chloride	ug/Kg(PPB)	680	ND
			Tetrachloroethene	ug/Kg(PPB)	680	22000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	680	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	680	ND
			Trichloroethene	ug/Kg(PPB)	680	ND
			Trichlorofluoromethane	ug/Kg(PPB)	680	ND
			Vinyl Chloride	ug/Kg(PPB)	680	ND
AA74112	FB					
		Volatile Organics (no search) 8260				
			1,1,1-Trichloroethane	ug/L (PPB)	5	ND
			1,1,2,2-Tetrachloroethane	ug/L (PPB)	5	ND
			1,1,2-Trichloroethane	ug/L (PPB)	5	ND
			1,1-Dichloroethane	ug/L (PPB)	5	ND
			1,1-Dichloroethene	ug/L (PPB)	5	ND
			1,2-Dichlorobenzene	ug/L (PPB)	5	ND
			1,2-Dichloroethane	ug/L (PPB)	5	ND
			1,2-Dichloropropane	ug/L (PPB)	5	ND
			1,3-Dichlorobenzene	ug/L (PPB)	5	ND
			1,4-Dichlorobenzene	ug/L (PPB)	5	ND
			2-Chloroethylvinylether	ug/L (PPB)	5	ND
			Bromodichloromethane	ug/L (PPB)	5	ND
			Bromoform	ug/L (PPB)	5	ND
			Bromomethane	ug/L (PPB)	5	ND
			Carbon Tetrachloride	ug/L (PPB)	5	ND
			Chlorobenzene	ug/L (PPB)	5	ND
			Chloroethane	ug/L (PPB)	5	ND
			Chloroform	ug/L (PPB)	5	ND
			Chloromethane	ug/L (PPB)	5	ND
			Cis-1,2-Dichloroethene	ug/L (PPB)	5	ND
			Cis-1,3-Dichloropropene	ug/L (PPB)	5	ND
			Dibromochloromethane	ug/L (PPB)	5	ND
			Methylene Chloride	ug/L (PPB)	5	ND
			Tetrachloroethene	ug/L (PPB)	5	ND
			Trans-1,2-Dichloroethene	ug/L (PPB)	5	ND
			Trans-1,3-Dichloropropene	ug/L (PPB)	5	ND
			Trichloroethene	ug/L (PPB)	5	ND
			Trichlorofluoromethane	ug/L (PPB)	5	ND
			Vinyl Chloride	ug/L (PPB)	5	ND

MDL used for 600 and 200 series methods. POL used for SW846 methods.
ND = Not Detected

Lab#	SampleID	TestGroup	Analyte	Units	MDL/PQL	Result
AA74113	S-N-10					
		% Solids SM2540G				
			% Solids	Percent		90
		Volatile Organics (no search) 8260				
			1,1,1-Trichloroethane	ug/Kg(PPB)	690	ND
			1,1,2,2-Tetrachloroethane	ug/Kg(PPB)	690	ND
			1,1,2-Trichloroethane	ug/Kg(PPB)	690	ND
			1,1-Dichloroethane	ug/Kg(PPB)	690	ND
			1,1-Dichloroethene	ug/Kg(PPB)	690	ND
			1,2-Dichlorobenzene	ug/Kg(PPB)	690	ND
			1,2-Dichloroethane	ug/Kg(PPB)	690	ND
			1,2-Dichloropropane	ug/Kg(PPB)	690	ND
			1,3-Dichlorobenzene	ug/Kg(PPB)	690	ND
			1,4-Dichlorobenzene	ug/Kg(PPB)	690	ND
			2-Chloroethylvinylether	ug/Kg(PPB)	690	ND
			Bromodichloromethane	ug/Kg(PPB)	690	ND
			Bromoform	ug/Kg(PPB)	690	ND
			Bromomethane	ug/Kg(PPB)	690	ND
			Carbon Tetrachloride	ug/Kg(PPB)	690	ND
			Chlorobenzene	ug/Kg(PPB)	690	ND
			Chloroethane	ug/Kg(PPB)	690	ND
			Chloroform	ug/Kg(PPB)	690	ND
			Chloromethane	ug/Kg(PPB)	690	ND
			Cis-1,2-Dichloroethene	ug/Kg(PPB)	690	ND
			Cis-1,3-Dichloropropene	ug/Kg(PPB)	690	ND
			Dibromochloromethane	ug/Kg(PPB)	690	ND
			Methylene Chloride	ug/Kg(PPB)	690	ND
			Tetrachloroethene	ug/Kg(PPB)	690	43000
			Trans-1,2-Dichloroethene	ug/Kg(PPB)	690	ND
			Trans-1,3-Dichloropropene	ug/Kg(PPB)	690	ND
			Trichloroethene	ug/Kg(PPB)	690	ND
			Trichlorofluoromethane	ug/Kg(PPB)	690	ND
			Vinyl Chloride	ug/Kg(PPB)	690	ND

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Robin Jetter - Quality Assurance Director

Or

Stanley Gilewicz - Laboratory Director

MDL used for 600 and 200 series methods. PQL used for SW846 methods.
ND = Not Detected

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA74108(1/125) *Matrix:* Soil

Client Id: S-S-10 *Initial Volume:* 5ml

Data File: fm0702 *Final Volume:* NA

Date Analyzed: 29 Oct 1998 3:39 *Dilution Factor:* 125

Date Received/Extracted: 10/21/98-NA *Percent Solids:* 93

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	670	U
79345	1,1,2,2-Tetrachloroethane	670	U
79005	1,1,2-Trichloroethane	670	U
75343	1,1-Dichloroethane	670	U
75354	1,1-Dichloroethene	670	U
95501	1,2-Dichlorobenzene	670	U
107062	1,2-Dichloroethane	670	U
78875	1,2-Dichloropropane	670	U
541731	1,3-Dichlorobenzene	670	U
106467	1,4-Dichlorobenzene	670	U
110758	2-Chloroethylvinylether	670	U
75274	Bromodichloromethane	670	U
75252	Bromoform	670	U
74839	Bromomethane	670	U
56235	Carbon Tetrachloride	670	U
108907	Chlorobenzene	670	U
75003	Chloroethane	670	U
67663	Chloroform	670	U
74873	Chloromethane	670	U
156592	Cis-1,2-Dichloroethene	670	U
10061015	Cis-1,3-Dichloropropene	670	U
124481	Dibromochloromethane	670	U
75092	Methylene Chloride	670	U
127184	Tetrachloroethene	670	32000
156605	Trans-1,2-Dichloroethene	670	U
10061026	Trans-1,3-Dichloropropene	670	U
79016	Trichloroethene	670	U
75694	Trichlorofluoromethane	670	U
75014	Vinyl Chloride	670	U

Total Target Concentration 32000

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0702.D Vial: 25
Acq On : 29 Oct 1998 3:39 Operator: GVC
Sample : AA74108(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 9:08 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.49	128	225457	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.63	114	1014025	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.11	117	966134	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.18	102	95930	30.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.77%			
47) Toluene-d8	11.46	100	239680	27.45	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.50%			
52) Bromofluorobenzene	14.30	174	495014	29.80	ug/l	0.02
Spiked Amount 30.000			Recovery = 99.33%			
Target Compounds						Qvalue
45) Tetrachloroethene	12.26	164	1962964	240.78	ug/l	87
54) m&p-Xylenes	13.25	106	29974	2.42	ug/l	49

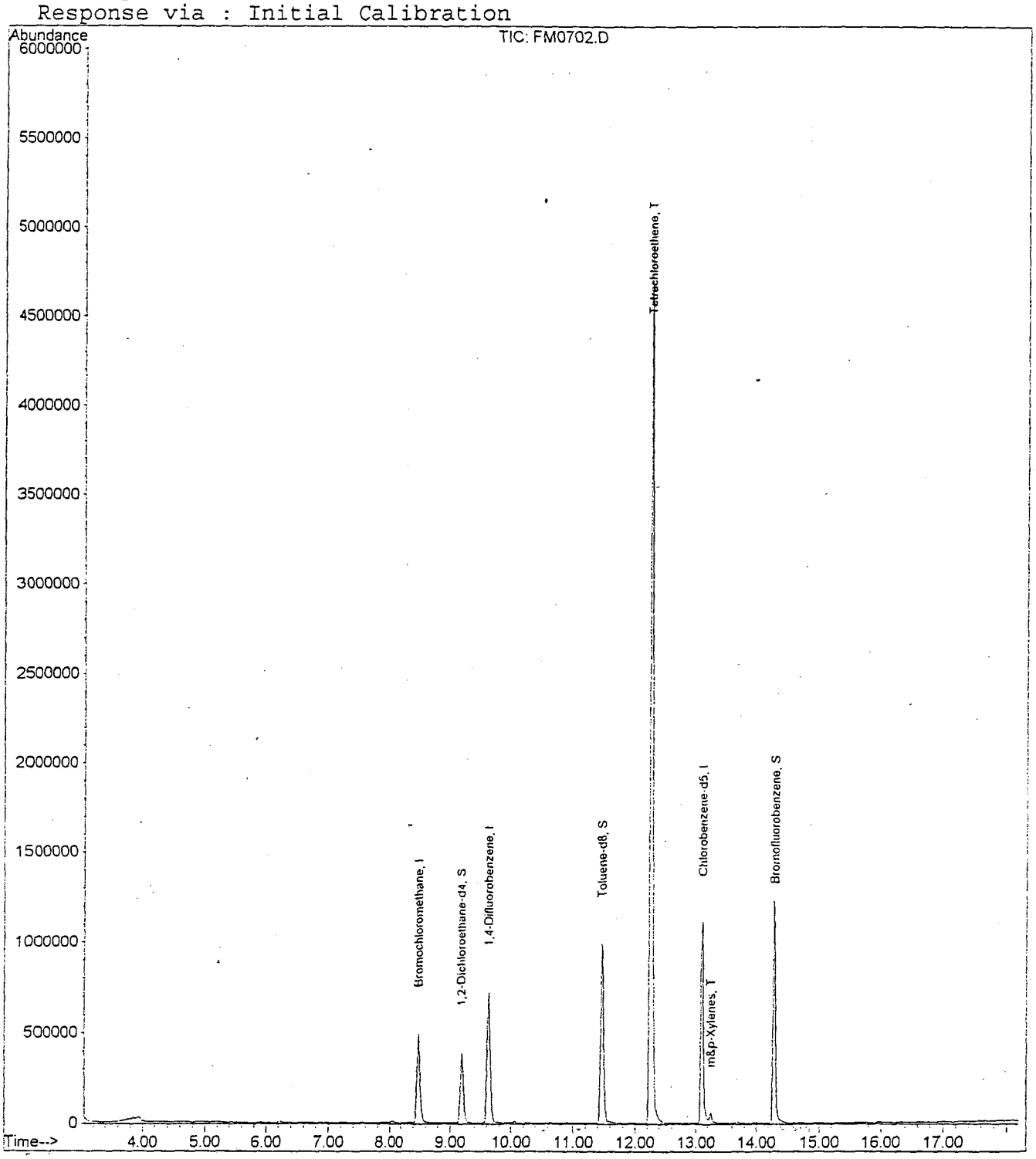
V
10-30-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0702.D Vial: 25
Acq On : 29 Oct 1998 3:39 Operator: GVC
Sample : AA74108(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 9:08 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: AA74109(1/125) *Matrix:* Soil

Client Id: S-E-10 *Initial Volume:* 5ml

Data File: fm0703 *Final Volume:* NA

Date Analyzed: 29 Oct 1998 4:05 *Dilution Factor:* 125

Date Received/Extracted: 10/21/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	700	U
79345	1,1,2,2-Tetrachloroethane	700	U
79005	1,1,2-Trichloroethane	700	U
75343	1,1-Dichloroethane	700	U
75354	1,1-Dichloroethene	700	U
95501	1,2-Dichlorobenzene	700	U
107062	1,2-Dichloroethane	700	U
78875	1,2-Dichloropropane	700	U
541731	1,3-Dichlorobenzene	700	U
106467	1,4-Dichlorobenzene	700	U
110758	2-Chloroethylvinylether	700	U
75274	Bromodichloromethane	700	U
75252	Bromoform	700	U
74839	Bromomethane	700	U
56235	Carbon Tetrachloride	700	U
108907	Chlorobenzene	700	U
75003	Chloroethane	700	U
67663	Chloroform	700	U
74873	Chloromethane	700	U
156592	Cis-1,2-Dichloroethene	700	U
10061015	Cis-1,3-Dichloropropene	700	U
124481	Dibromochloromethane	700	U
75092	Methylene Chloride	700	U
127184	Tetrachloroethene	700	7500
156605	Trans-1,2-Dichloroethene	700	U
10061026	Trans-1,3-Dichloropropene	700	U
79016	Trichloroethene	700	U
75694	Trichlorofluoromethane	700	U
75014	Vinyl Chloride	700	U

Total Target Concentration 7500

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0703.D Vial: 26
Acq On : 29 Oct 1998 4:05 Operator: GVC
Sample : AA74109(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 9:08 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.49	128	223324	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.64	114	1009508	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.11	117	955364	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.18	102	95024	30.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.77%			
47) Toluene-d8	11.46	100	244224	28.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.30%			
52) Bromofluorobenzene	14.28	174	488860	29.76	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.20%			
Target Compounds						Qvalue
45) Tetrachloroethene	12.26	164	428946	53.21	ug/l	91

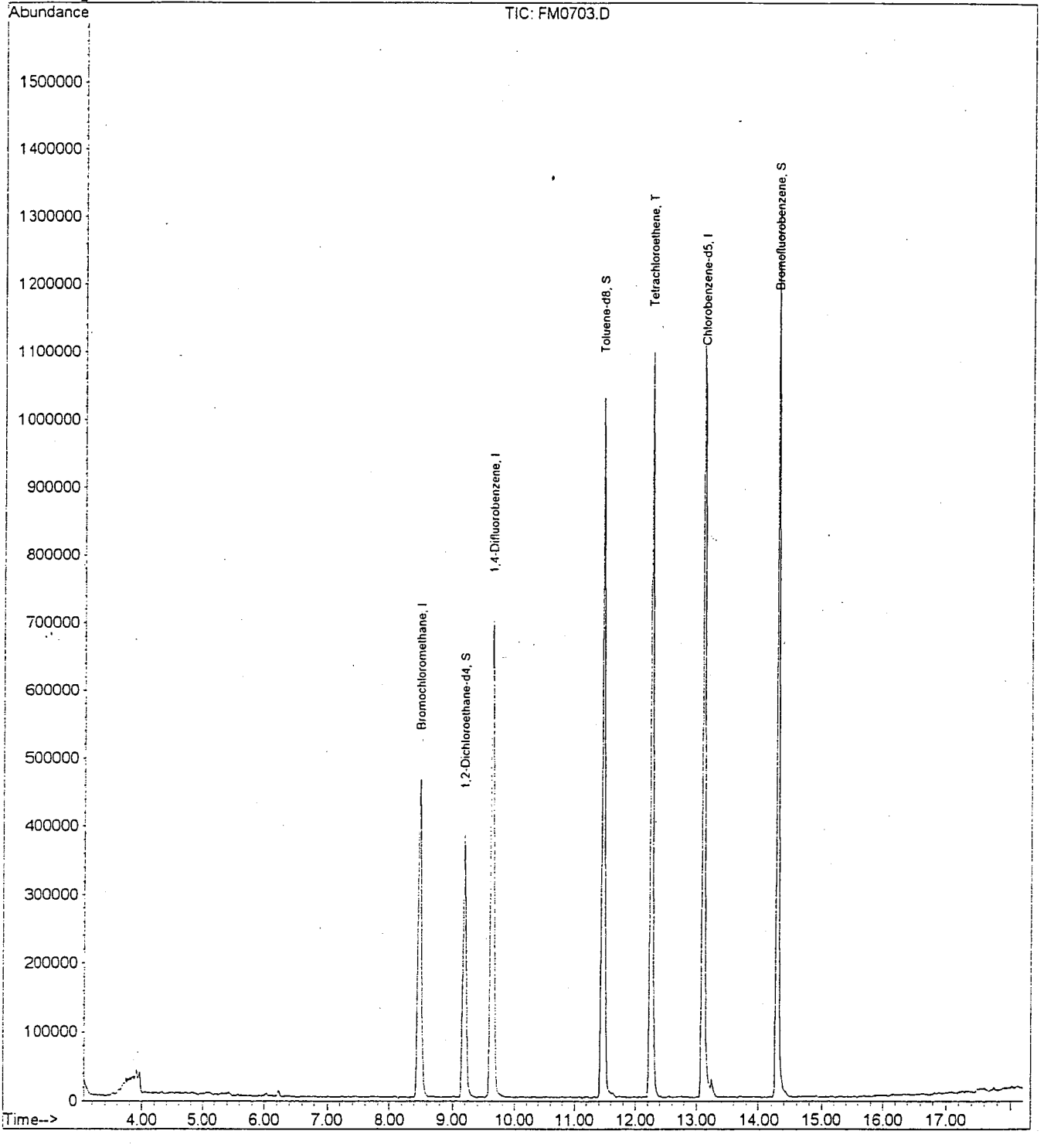
10-30-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0703.D Vial: 26
Acq On : 29 Oct 1998 4:05 Operator: GVC
Sample : AA74109(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 9:08 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1
ORGANICS VOLATILE REPORT

Sample Number: AA74110(1/125) *Matrix:* Soil
Client Id: S-B-12 *Initial Volume:* 5ml
Data File: fm0704 *Final Volume:* NA
Date Analyzed: 29 Oct 1998 4:30 *Dilution Factor:* 125
Date Received/Extracted: 10/21/98-NA *Percent Solids:* 86
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	730	U
79345	1,1,2,2-Tetrachloroethane	730	U
79005	1,1,2-Trichloroethane	730	U
75343	1,1-Dichloroethane	730	U
75354	1,1-Dichloroethene	730	U
95501	1,2-Dichlorobenzene	730	U
107062	1,2-Dichloroethane	730	U
78875	1,2-Dichloropropane	730	U
541731	1,3-Dichlorobenzene	730	U
106467	1,4-Dichlorobenzene	730	U
110758	2-Chloroethylvinylether	730	U
75274	Bromodichloromethane	730	U
75252	Bromoform	730	U
74839	Bromomethane	730	U
56235	Carbon Tetrachloride	730	U
108907	Chlorobenzene	730	U
75003	Chloroethane	730	U
67663	Chloroform	730	U
74873	Chloromethane	730	U
156592	Cis-1,2-Dichloroethene	730	600 J
10061015	Cis-1,3-Dichloropropene	730	U
124481	Dibromochloromethane	730	U
75092	Methylene Chloride	730	U
127184	Tetrachloroethene	730	55000
156605	Trans-1,2-Dichloroethene	730	U
10061026	Trans-1,3-Dichloropropene	730	U
79016	Trichloroethene	730	U
75694	Trichlorofluoromethane	730	U
75014	Vinyl Chloride	730	U

Total Target Concentration 56000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0704.D Vial: 27
Acq On : 29 Oct 1998 4:30 Operator: GVC
Sample : AA74110(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 9:08 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.47	128	223168	30.00	ug/l	-0.01
24) 1,4-Difluorobenzene	9.62	114	993584	30.00	ug/l	-0.01
42) Chlorobenzene-d5	13.10	117	950048	30.00	ug/l	0.00
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.19	102	94506	30.69	ug/l	0.00
Spiked Amount 30.000			Recovery =	102.30%		
47) Toluene-d8	11.47	100	244288	28.46	ug/l	0.00
Spiked Amount 30.000			Recovery =	94.87%		
52) Bromofluorobenzene	14.28	174	487729	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery =	99.53%		
Target Compounds						Qvalue
18) cis-1,2-Dichloroethene	8.02	61	67526	4.16	ug/l	91
45) Tetrachloroethene	12.25	164	3042339	379.50	ug/l	80

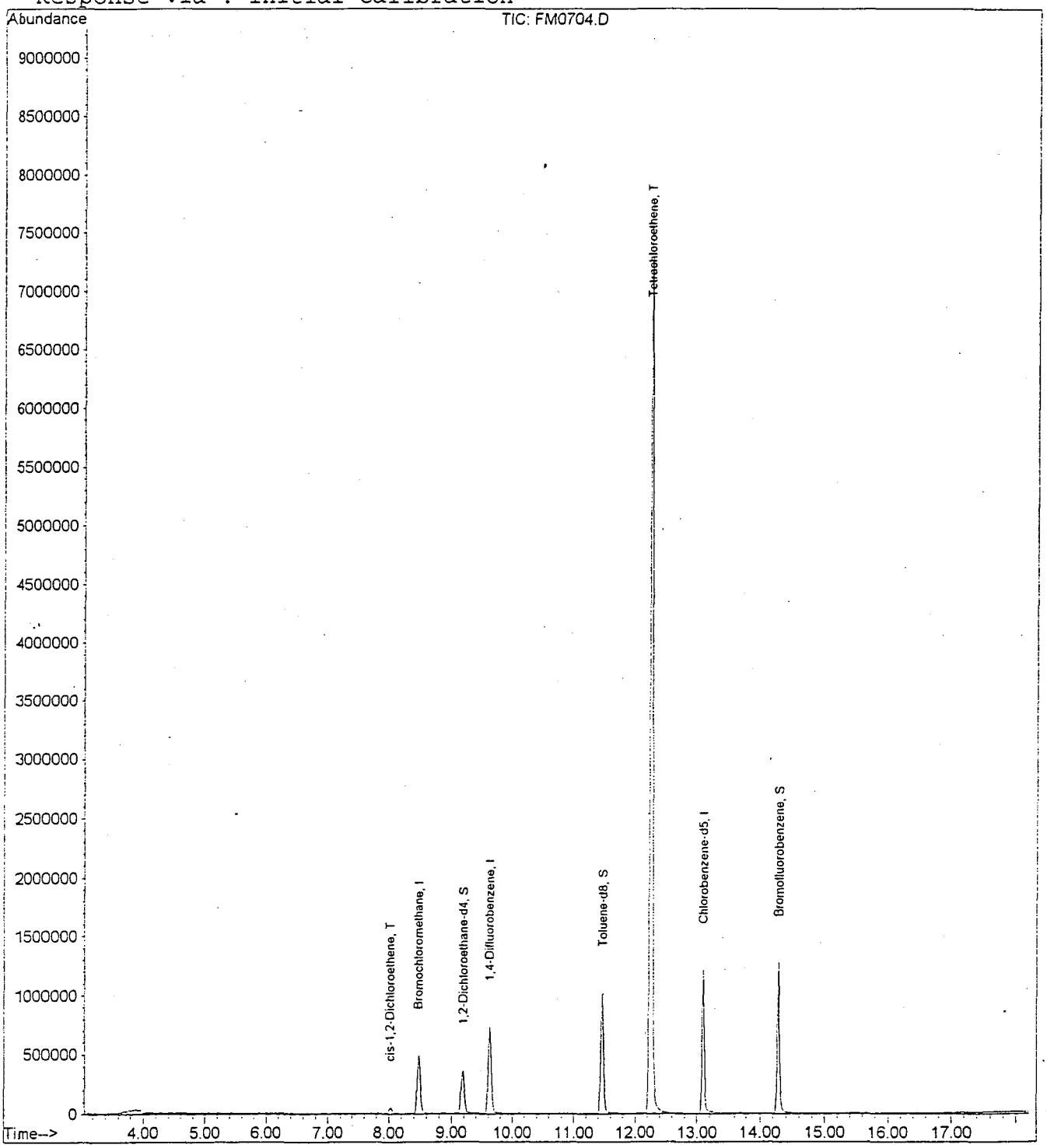
10-30-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0704.D Vial: 27
Acq On : 29 Oct 1998 4:30 Operator: GVC
Sample : AA74110(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 9:08 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1
ORGANICS VOLATILE REPORT

Sample Number: AA74111(1/125) *Matrix:* Soil
Client Id: S-W-10 *Initial Volume:* 5ml
Data File: fm0736 *Final Volume:* NA
Date Analyzed: 29 Oct 1998 22:04 *Dilution Factor:* 125
Date Received/Extracted: 10/21/98-NA *Percent Solids:* 92
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	680	U
79345	1,1,2,2-Tetrachloroethane	680	U
79005	1,1,2-Trichloroethane	680	U
75343	1,1-Dichloroethane	680	U
75354	1,1-Dichloroethene	680	U
95501	1,2-Dichlorobenzene	680	U
107062	1,2-Dichloroethane	680	U
78875	1,2-Dichloropropane	680	U
541731	1,3-Dichlorobenzene	680	U
106467	1,4-Dichlorobenzene	680	U
110758	2-Chloroethylvinylether	680	U
75274	Bromodichloromethane	680	U
75252	Bromoform	680	U
74839	Bromomethane	680	U
56235	Carbon Tetrachloride	680	U
108907	Chlorobenzene	680	U
75003	Chloroethane	680	U
67663	Chloroform	680	U
74873	Chloromethane	680	U
156592	Cis-1,2-Dichloroethene	680	U
10061015	Cis-1,3-Dichloropropene	680	U
124481	Dibromochloromethane	680	U
75092	Methylene Chloride	680	U
127184	Tetrachloroethene	680	22000
156605	Trans-1,2-Dichloroethene	680	U
10061026	Trans-1,3-Dichloropropene	680	U
79016	Trichloroethene	680	U
75694	Trichlorofluoromethane	680	U
75014	Vinyl Chloride	680	U

Total Target Concentration 22000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0736.D Vial: 27
Acq On : 29 Oct 1998 22:04 Operator: GVC
Sample : AA74111(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:52 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.50	128	274590	30.00	ug/l	0.02
24) 1,4-Difluorobenzene	9.63	114	1090796	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.11	117	1004165	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.20	102	101137	26.69	ug/l	0.02
Spiked Amount 30.000			Recovery = 88.97%			
47) Toluene-d8	11.48	100	272192	30.00	ug/l	0.02
Spiked Amount 30.000			Recovery = 100.00%			
52) Bromofluorobenzene	14.29	174	531738	30.80	ug/l	0.02
Spiked Amount 30.000			Recovery = 102.67%			
Target Compounds						Qvalue
45) Tetrachloroethene	12.28	164	1361103	160.63	ug/l	89

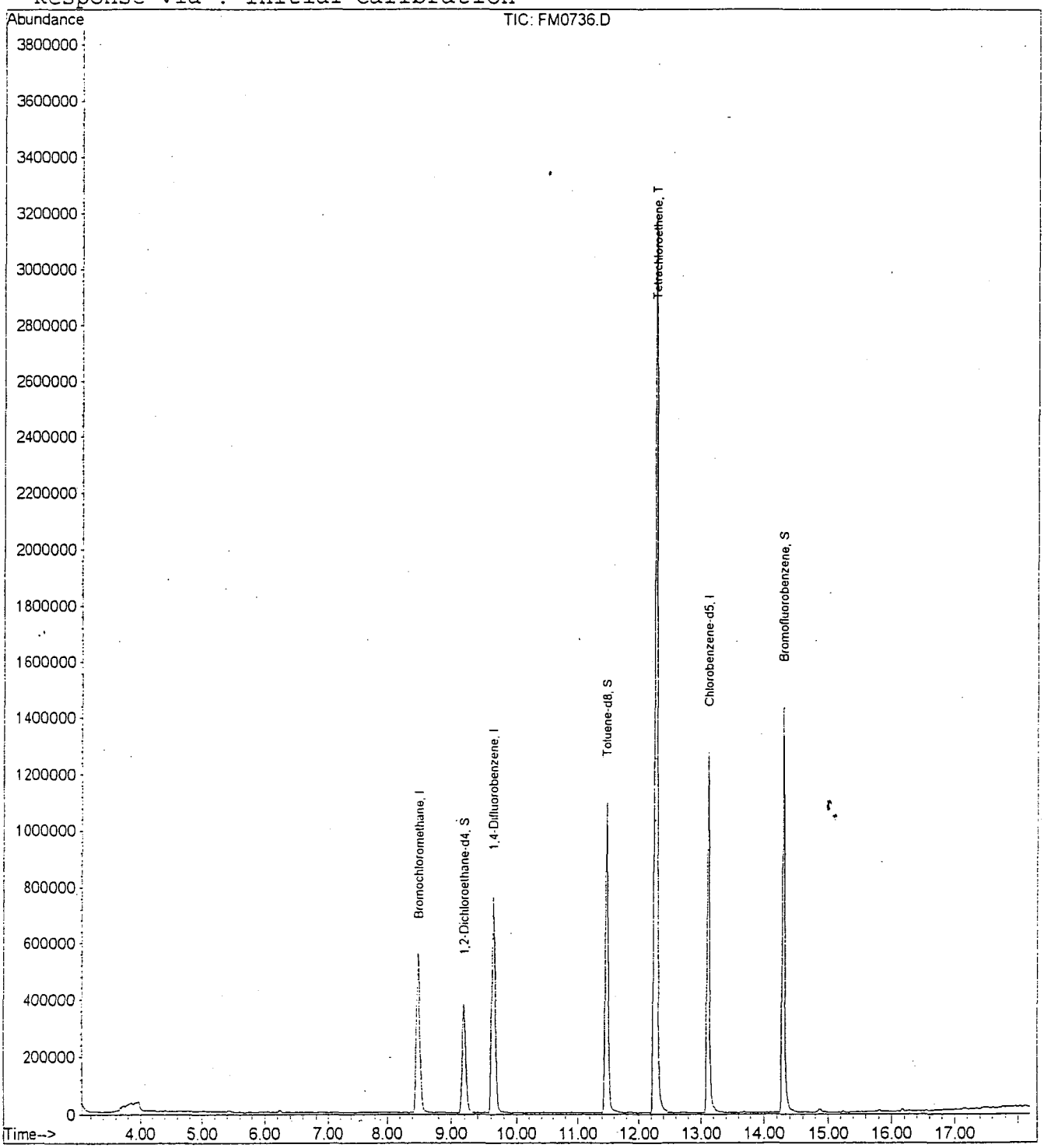
10-30

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0736.D Vial: 27
Acq On : 29 Oct 1998 22:04 Operator: GVC
Sample : AA74111(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:52 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1
ORGANICS VOLATILE REPORT

Sample Number: AA74112 — *Matrix:* Water
Client Id: FB — *Initial Volume:* 5ml
Data File: fm0730 — *Final Volume:* NA
Date Analyzed: 29 Oct 1998 19:30 — *Dilution Factor:* 1
Date Received/Extracted: 10/21/98-NA — *Percent Solids:* 0
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/L (PPB)
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
95501	1,2-Dichlorobenzene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
541731	1,3-Dichlorobenzene	5.0	U
106467	1,4-Dichlorobenzene	5.0	U
110758	2-Chloroethylvinylether	5.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
56235	Carbon Tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
75092	Methylene Chloride	5.0	U
127184	Tetrachloroethene	5.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75694	Trichlorofluoromethane	5.0	U
75014	Vinyl Chloride	5.0	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0730.D Vial: 21
Acq On : 29 Oct 1998 19:30 Operator: GVC
Sample : AA74112 Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 13:14 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.50	128	264368	30.00	ug/l	0.02
24) 1,4-Difluorobenzene	9.63	114	1063490	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.11	117	993367	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.20	102	96594	26.48	ug/l	0.02
Spiked Amount 30.000			Recovery =	88.27%		
47) Toluene-d8	11.48	100	245376	27.34	ug/l	0.02
Spiked Amount 30.000			Recovery =	91.13%		
52) Bromofluorobenzene	14.30	174	534914	31.32	ug/l	0.02
Spiked Amount 30.000			Recovery =	104.40%		

Target Compounds Qvalue

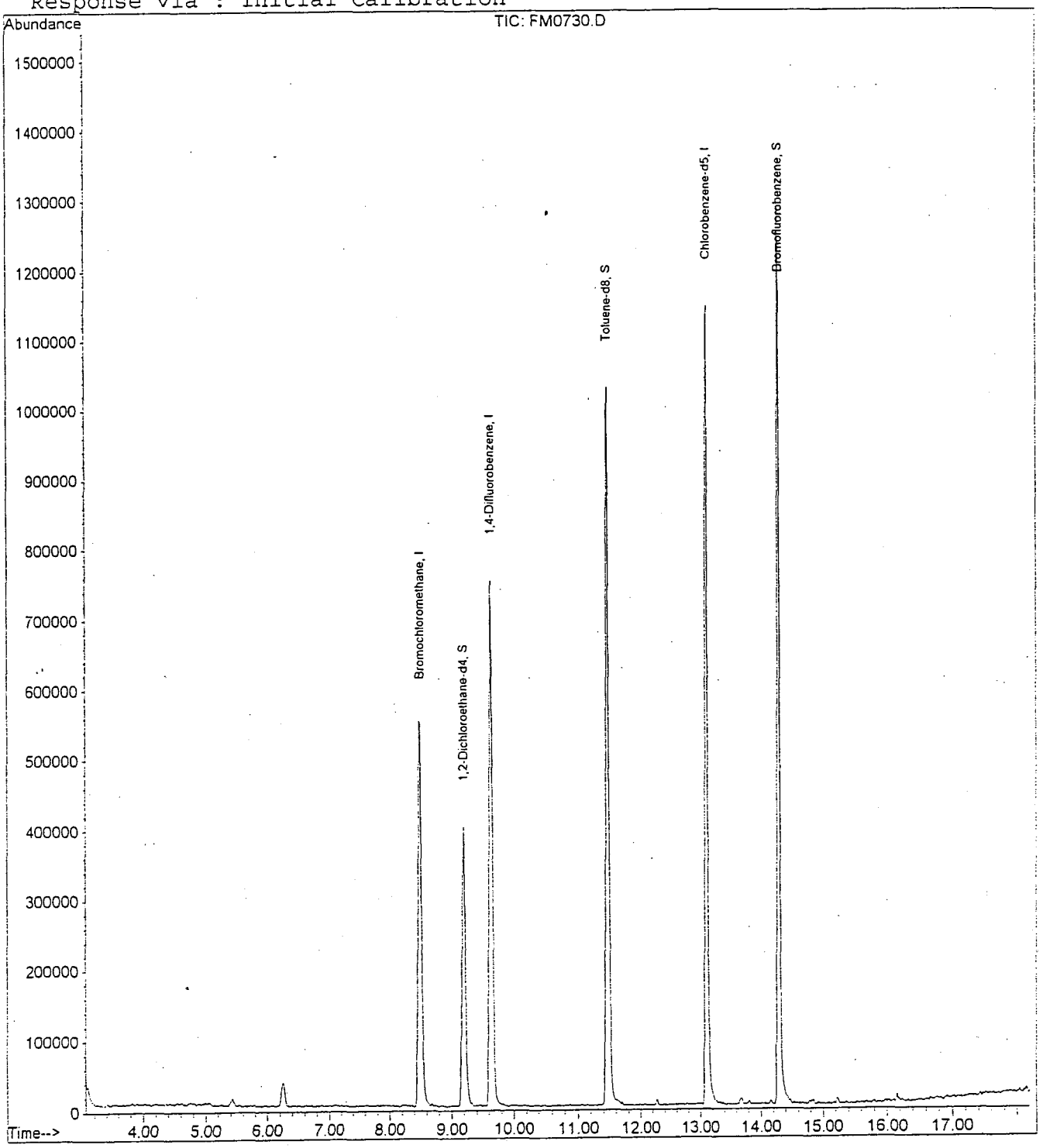
N
10-30-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0730.D Vial: 21
Acq On : 29 Oct 1998 19:30 Operator: GVC
Sample : AA74112 Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 13:14 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1
ORGANICS VOLATILE REPORT

Sample Number: AA74113(1/125) *Matrix:* Soil
Client Id: S-N-10 *Initial Volume:* 5ml
Data File: fm0727 *Final Volume:* NA
Date Analyzed: 29 Oct 1998 18:13 *Dilution Factor:* 125
Date Received/Extracted: 10/21/98-NA *Percent Solids:* 90
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	690	U
79345	1,1,2,2-Tetrachloroethane	690	U
79005	1,1,2-Trichloroethane	690	U
75343	1,1-Dichloroethane	690	U
75354	1,1-Dichloroethene	690	U
95501	1,2-Dichlorobenzene	690	U
107062	1,2-Dichloroethane	690	U
78875	1,2-Dichloropropane	690	U
541731	1,3-Dichlorobenzene	690	U
106467	1,4-Dichlorobenzene	690	U
110758	2-Chloroethylvinylether	690	U
75274	Bromodichloromethane	690	U
75252	Bromoform	690	U
74839	Bromomethane	690	U
56235	Carbon Tetrachloride	690	U
108907	Chlorobenzene	690	U
75003	Chloroethane	690	U
67663	Chloroform	690	U
74873	Chloromethane	690	U
156592	Cis-1,2-Dichloroethene	690	U
10061015	Cis-1,3-Dichloropropene	690	U
124481	Dibromochloromethane	690	U
75092	Methylene Chloride	690	U
127184	Tetrachloroethene	690	43000
156605	Trans-1,2-Dichloroethene	690	U
10061026	Trans-1,3-Dichloropropene	690	U
79016	Trichloroethene	690	U
75694	Trichlorofluoromethane	690	U
75014	Vinyl Chloride	690	U

Total Target Concentration 43000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0727.D Vial: 18
Acq On : 29 Oct 1998 18:13 Operator: GVC
Sample : AA74113(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:50 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.49	128	237033	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.63	114	1063074	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.11	117	984454	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.20	102	99049	30.28	ug/l	0.02
Spiked Amount 30.000			Recovery =	100.93%		
47) Toluene-d8	11.48	100	259712	29.19	ug/l	0.02
Spiked Amount 30.000			Recovery =	97.30%		
52) Bromofluorobenzene	14.30	174	519976	30.72	ug/l	0.02
Spiked Amount 30.000			Recovery =	102.40%		
Target Compounds						Qvalue
45) Tetrachloroethene	12.26	164	2578289	310.38	ug/l	82

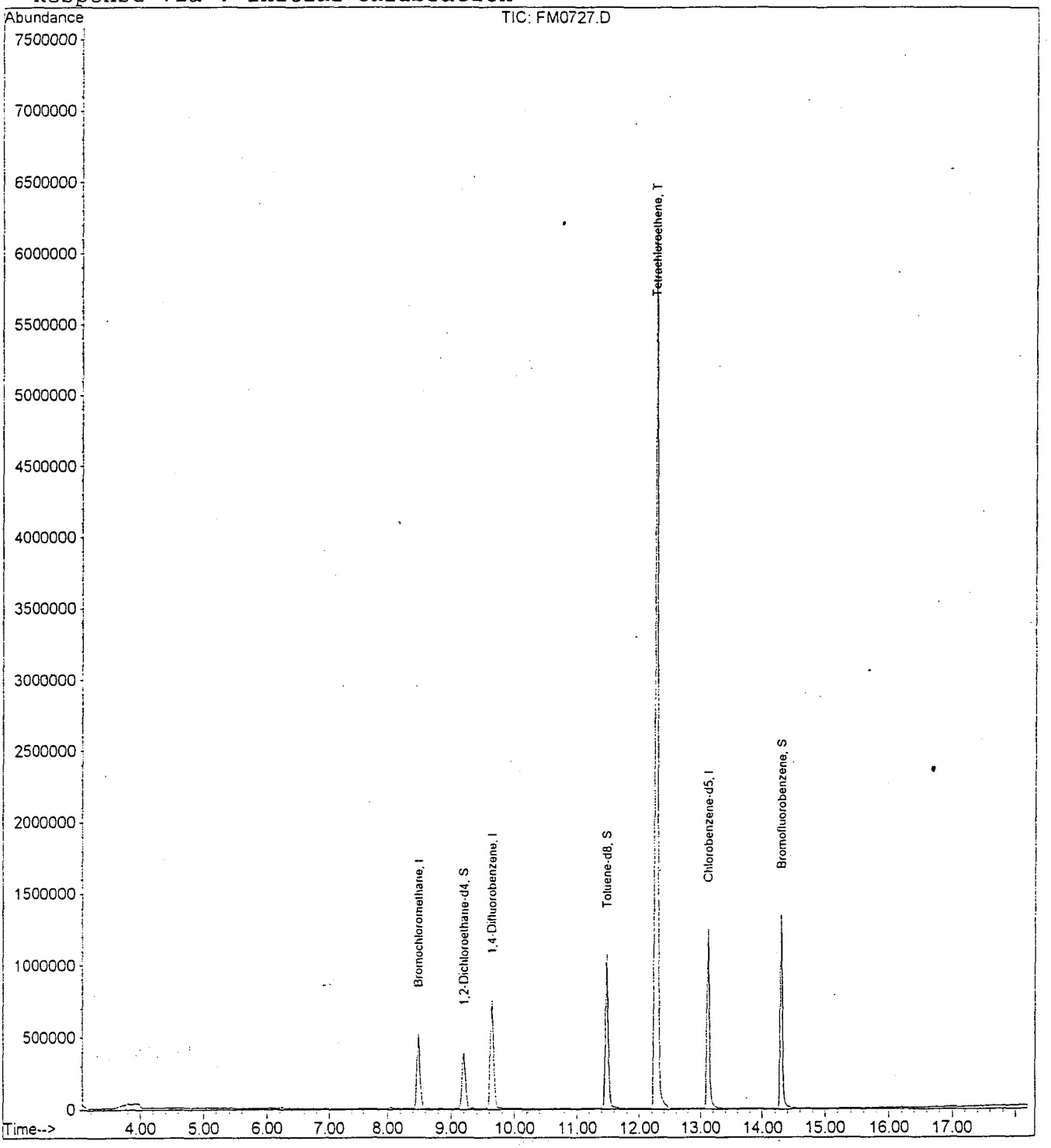
10-30-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0727.D Vial: 18
Acq On : 29 Oct 1998 18:13 Operator: GVC
Sample : AA74113(1/125) Inst : GCMS_1
Misc : M,4g/10mL--800uL/40mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:50 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



10221848

Veritech, 175 Route 46 West, Fairfield, NJ 07004
A Division of HAMPTON-CLARKE, Inc NJDEPE #14622

CHAIN OF CUSTODY RECORD

PHONE (973) 244-9770
FAX (973) 244-9787

CUSTOMER INFORMATION

CUSTOMER: Ecosystems Strategies Inc-
ADDRESS: 60 Worrall Ave.
TELEPHONE: 914-452-1658
PROJECT:
PROJECT MANAGER: Zynia Wojnar
PROJECT LOCATION: Middletown
STATE: NY
PO NUMBER: LM97145-40

REPORT INFORMATION

SEND REPORT TO:
Zynia Wojnar
Ecosystems Strategies, Inc-
60 Worrall Ave
Poughkeepsie, NY 12603
SEND INVOICE TO: Johanna Kurtz
Ecosystems

PROJECT INFORMATION

TURNAROUND (CONFIRM RUSH TAT'S WITH LAB)
STANDARD _____ RUSH ✓ 5-day
DELIVERABLES (PLEASE CIRCLE):
(STANDARD) ISRA BUST
WASTE REGULATORY
OTHER (Specify) _____

ANALYTICAL REQUESTS

LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE (C)	SAMPLE TYPE: GRAB (G)	SAMPLE MATRIX	NO. OF BOTTLES: H_2SO_4	HNO_3	HCL	NaOH	ZnAc + NaOH	Ascorbic	NONE	OTHER	ANALYSIS
AA74108	S-S-10'	10/21/98	1520		✓	S							1		8010 Analyzed by 8260
74109	S-E-10'		1530		✓	S							1		
74110	S-B-12'		1540		✓	S							1		
74111	S-W-10'		1545		✓	S							1		
74112	FB		1550		✓	W			2						
74113	S-N-10'	✓	1555		✓	S							1		✓

SAMPLER CERTIFIES THAT EACH SAMPLE RECEIVED PROPER FIELD PRESERVATION (IF REQUIRED) (INITIALS) _____

SAMPLE HAZARDS: ☐ FLAMMABLE ☐ SKIN IRRITANT ☐ NON-HAZARD ☐ UNKNOWN ☐ NOXIOUS FUMES unknown

SPECIAL INSTRUCTIONS: some have high PID readings (100-1,000)

TEMPERATURE UPON RECEIPT: RT

Relinquished by: Agent of: Ecosystems Strategies, Inc.	DATE/TIME 10/21/98 1625	Received by: Agent of:		DATE/TIME 10/21 1700
Relinquished by: Agent of:	DATE/TIME 10/21 1830	Received by: Agent of: Veritech		DATE/TIME 10/21 1830

CONDITION UPON RECEIPT FORM

Veritech

Date Received: 10/21/98 Filed By: TF

Client: EcoSystems Project/Account:

INITIAL CONDITIONS

YES	NO		
✓		[1]	Is there a corresponding Chain of Custody included with the samples?
✓		[2]	Are the samples in a container such as a cooler or ice chest?
	✓	[3]	Are the custody seals intact? IF NO, please circle one of the following: (missing) broken N.A.
RT °C		[4]	Please specify the temperature inside the container.

SAMPLE INFORMATION

YES	NO		
(10-21-98 TF ✓		[5]	Are the samples properly refrigerated (where required)?
✓		[6]	Are the samples within holding times for the parameters listed on the COC? If NO, list parameters and associated samples:
✓		[7]	Are all of the sample bottles intact? If NO, specify sample numbers below: broken: leaking:
✓		[8]	Are all of the sample labels or numbers legible? If NO, specify:
✓		[9]	Do the contents of the container match the COC? If NO, specify:
✓		[10]	Is there enough sample sent for the analyses listed on the COC? If NO, specify:
✓		[11]	Are the samples preserved correctly (see Preservation Form for actual pH readings)?
		[12]	Are all soil VO(NJ) samples properly preserved in methanol with the correct soil weights (8g - 12g) and accompanied by dry soil?

OTHER

[13] Specify:

CORRECTIVE ACTIONS

NO.	ACTION

\CUR9.DOC

PRESERVATION DOCUMENTATION

Date Received 10-21-98 Filed By TE

Client Ecosystems Project

SAMPLE ID:	CONTAINER SIZE	CONTAINER TYPE (PG)	PARAMETER	PRESERVATIVE	pH
EB	40ml	G	VO	HCl	1

Form1
ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK(ME
Client Id:
Data File: fm0682
Date Analyzed: 28 Oct 1998 19:09
Date Received/Extracted:

Matrix: Soil
Initial Volume: 5ml
Final Volume: NA
Dilution Factor: 125
Percent Solids: 100

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	630	U
79345	1,1,2,2-Tetrachloroethane	630	U
79005	1,1,2-Trichloroethane	630	U
75343	1,1-Dichloroethane	630	U
75354	1,1-Dichloroethene	630	U
95501	1,2-Dichlorobenzene	630	U
107062	1,2-Dichloroethane	630	U
78875	1,2-Dichloropropane	630	U
541731	1,3-Dichlorobenzene	630	U
106467	1,4-Dichlorobenzene	630	U
110758	2-Chloroethylvinylether	630	U
75274	Bromodichloromethane	630	U
75252	Bromoform	630	U
74839	Bromomethane	630	U
56235	Carbon Tetrachloride	630	U
108907	Chlorobenzene	630	U
75003	Chloroethane	630	U
67663	Chloroform	630	U
74873	Chloromethane	630	U
156592	Cis-1,2-Dichloroethene	630	U
10061015	Cis-1,3-Dichloropropene	630	U
124481	Dibromochloromethane	630	U
75092	Methylene Chloride	630	U
127184	Tetrachloroethene	630	U
156605	Trans-1,2-Dichloroethene	630	U
10061026	Trans-1,3-Dichloropropene	630	U
79016	Trichloroethene	630	U
75694	Trichlorofluoromethane	630	U
75014	Vinyl Chloride	630	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT/LSC Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0682.D Vial: 5
Acq On : 28 Oct 1998 19:09 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 13:12 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.49	128	212305	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.62	114	947143	30.00	ug/l	-0.02
42) Chlorobenzene-d5	13.10	117	892344	30.00	ug/l	0.00
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.18	102	90112	30.76	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.53%			
47) Toluene-d8	11.46	100	229568	28.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.90%			
52) Bromofluorobenzene	14.28	174	450265	29.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.83%			

Target Compounds Qvalue

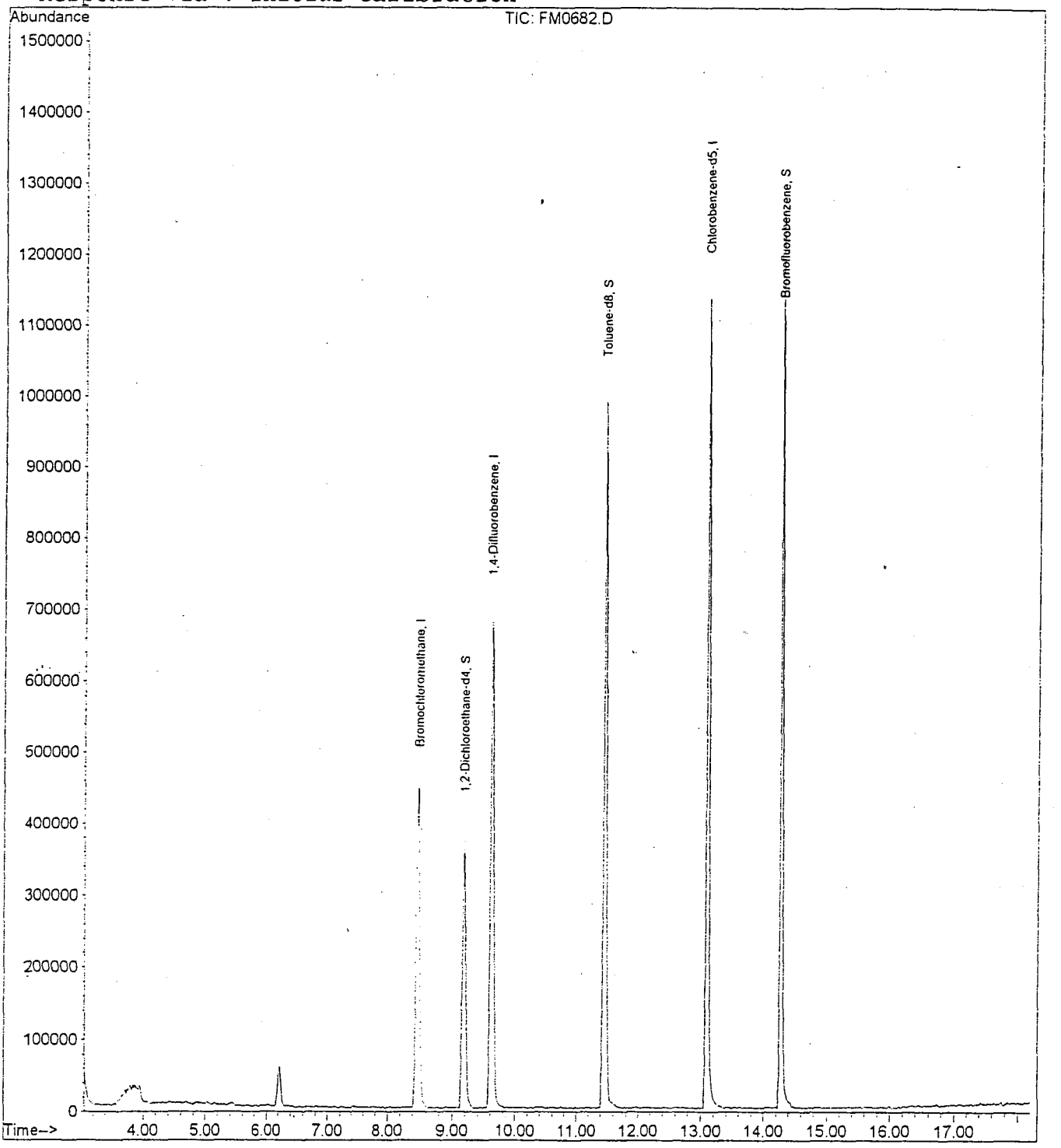
10-30-98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-28-98\FM0682.D Vial: 5
Acq On : 28 Oct 1998 19:09 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 29 13:12 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK(A) *Matrix:* Water

Client Id: *Initial Volume:* 5ml

Data File: fm0713 *Final Volume:* NA

Date Analyzed: 29 Oct 1998 12:11 *Dilution Factor:* 1

Date Received/Extracted: *Percent Solids:* 0

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/L (PPB)
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethene	5.0	U
95501	1,2-Dichlorobenzene	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
541731	1,3-Dichlorobenzene	5.0	U
106467	1,4-Dichlorobenzene	5.0	U
110758	2-Chloroethylvinylether	5.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
56235	Carbon Tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
156592	Cis-1,2-Dichloroethene	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
75092	Methylene Chloride	5.0	U
127184	Tetrachloroethene	5.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75694	Trichlorofluoromethane	5.0	U
75014	Vinyl Chloride	5.0	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0713.D Vial: 4
Acq On : 29 Oct 1998 12:11 Operator: GVC
Sample : DAILY BLANK(A) Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:48 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.49	128	265775	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.64	114	1177413	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.10	117	981651	30.00	ug/l	0.00
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.18	102	113915	31.06	ug/l	0.00
Spiked Amount 30.000			Recovery =	103.53%		
47) Toluene-d8	11.46	100	268352	30.25	ug/l	0.00
Spiked Amount 30.000			Recovery =	100.83%		
52) Bromofluorobenzene	14.28	174	520763	30.85	ug/l	0.00
Spiked Amount 30.000			Recovery =	102.83%		

Target Compounds Qvalue

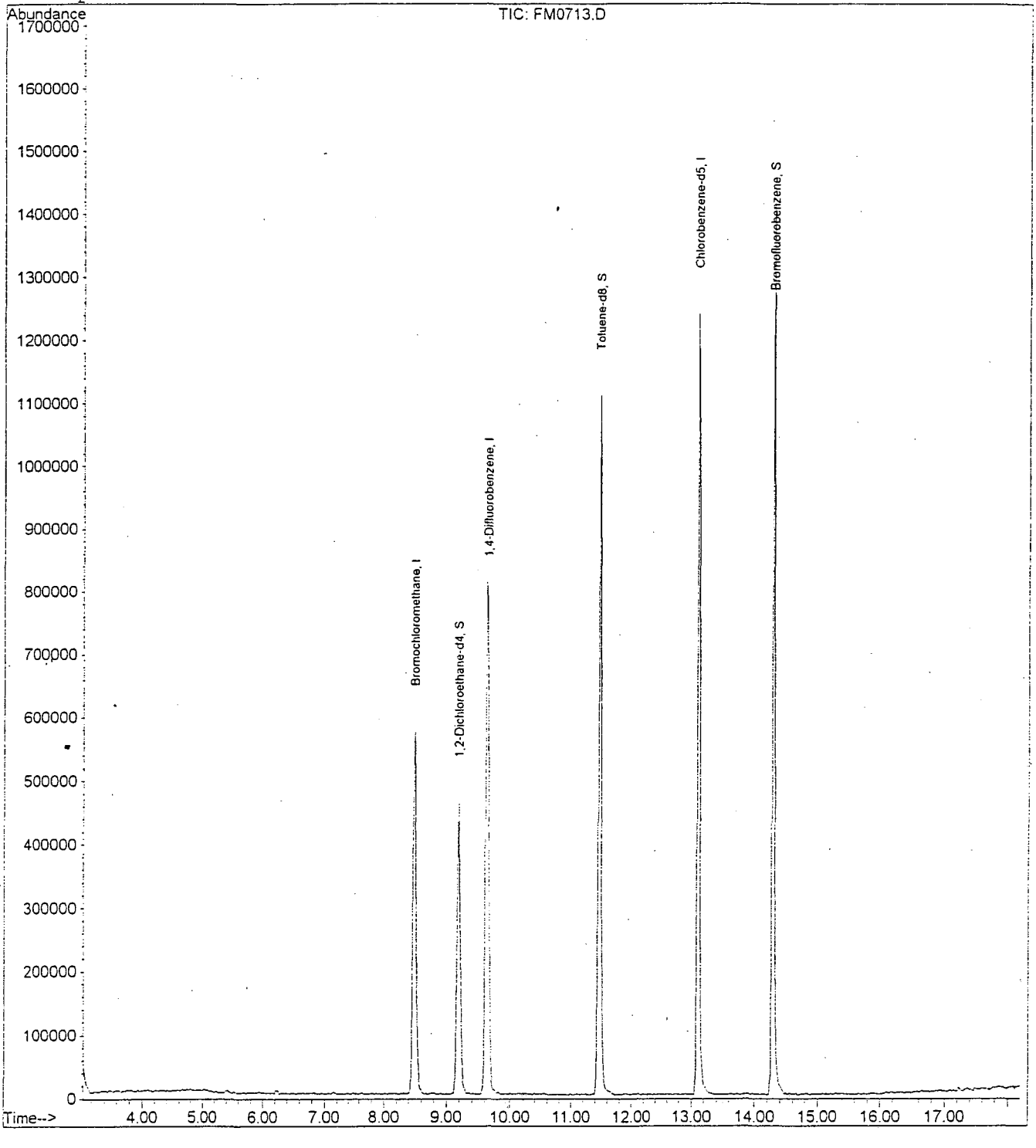
10-30

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0713.D Vial: 4
Acq On : 29 Oct 1998 12:11 Operator: GVC
Sample : DAILY BLANK(A) Inst : GCMS_1
Misc : A,5mL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:48 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK(ME
Matrix: Soil
Client Id:
Initial Volume: 5ml
Data File: fm0714
Final Volume: NA
Date Analyzed: 29 Oct 1998 12:37
Dilution Factor: 125
Date Received/Extracted:
Percent Solids: 100
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	630	U
79345	1,1,2,2-Tetrachloroethane	630	U
79005	1,1,2-Trichloroethane	630	U
75343	1,1-Dichloroethane	630	U
75354	1,1-Dichloroethene	630	U
95501	1,2-Dichlorobenzene	630	U
107062	1,2-Dichloroethane	630	U
78875	1,2-Dichloropropane	630	U
541731	1,3-Dichlorobenzene	630	U
106467	1,4-Dichlorobenzene	630	U
110758	2-Chloroethylvinylether	630	U
75274	Bromodichloromethane	630	U
75252	Bromoform	630	U
74839	Bromomethane	630	U
56235	Carbon Tetrachloride	630	U
108907	Chlorobenzene	630	U
75003	Chloroethane	630	U
67663	Chloroform	630	U
74873	Chloromethane	630	U
156592	Cis-1,2-Dichloroethene	630	U
10061015	Cis-1,3-Dichloropropene	630	U
124481	Dibromochloromethane	630	U
75092	Methylene Chloride	630	U
127184	Tetrachloroethene	630	U
156605	Trans-1,2-Dichloroethene	630	U
10061026	Trans-1,3-Dichloropropene	630	U
79016	Trichloroethene	630	U
75694	Trichlorofluoromethane	630	U
75014	Vinyl Chloride	630	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File: h:\import\12635.txt

Quantitation Report (QT Reviewed)

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0714.D Vial: 5
Acq On : 29 Oct 1998 12:37 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_1
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:48 1998 Quant Results File: MH01022.RES

Quant Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration
DataAcq Meth : M_8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.49	128	237570	30.00	ug/l	0.00
24) 1,4-Difluorobenzene	9.63	114	1085150	30.00	ug/l	0.00
42) Chlorobenzene-d5	13.11	117	994819	30.00	ug/l	0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	9.18	102	101887	31.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.60%			
47) Toluene-d8	11.46	100	260928	29.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.77%			
52) Bromofluorobenzene	14.29	174	531007	31.04	ug/l	0.02
Spiked Amount 30.000			Recovery = 103.47%			

Target Compounds Qvalue

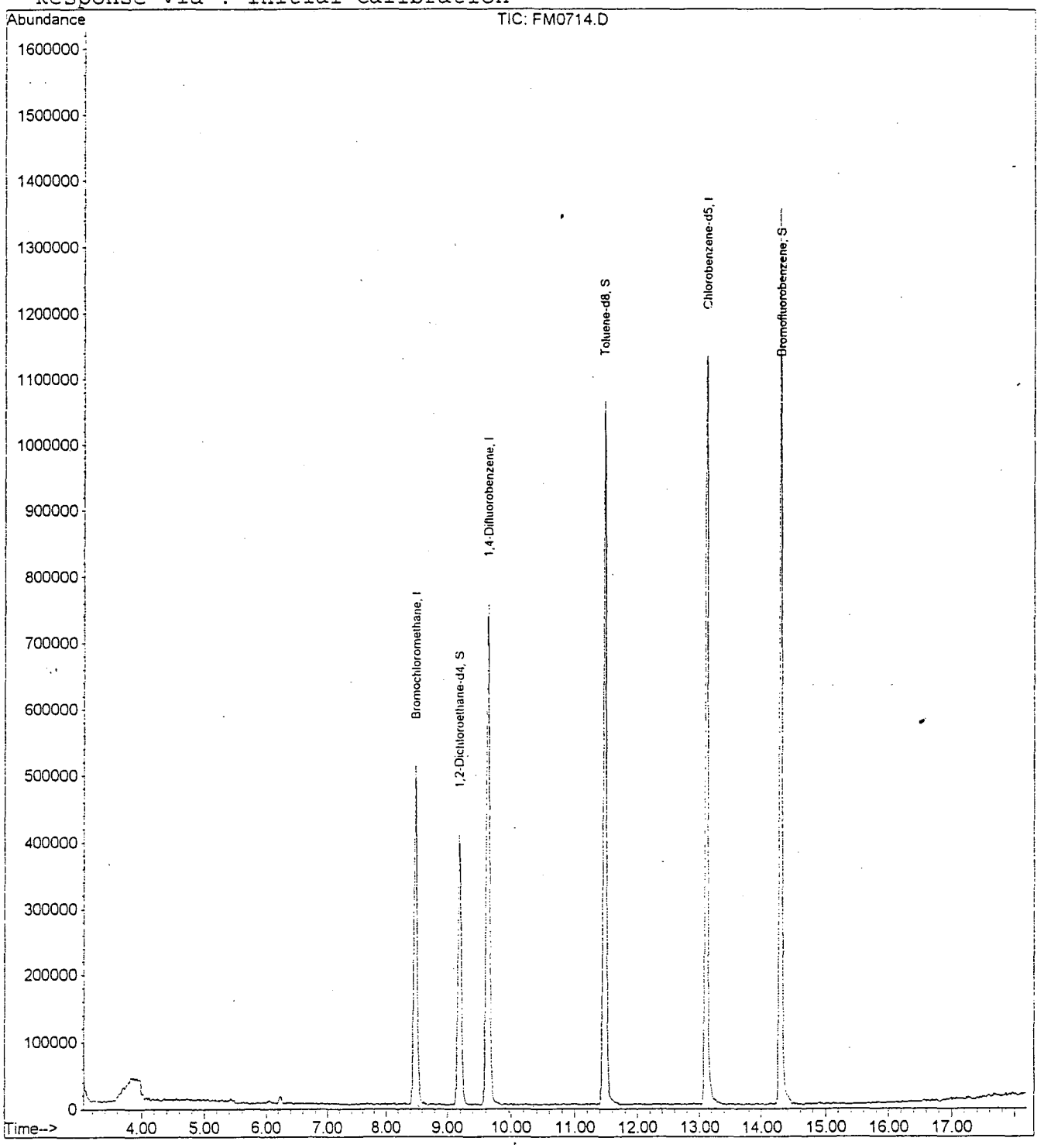
10-30A

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\GCMSDATA\GCMS_1\10-29-98\FM0714.D Vial: 5
Acq On : 29 Oct 1998 12:37 Operator: GVC
Sample : DAILY BLANK(MEOH) Inst : GCMS_1
Misc : M,800uL Multiplr: 1.00
MS Integration Params: RTEME.P
Quant Time: Oct 30 9:48 1998 Quant Results File: MH01022.RES

Method : G:\GCMSDATA\METHODS\MH01022.M (RTE Integrator)
Title : @GCMS_1
Last Update : Fri Oct 23 10:18:24 1998
Response via : Initial Calibration



Southern "Hot Spot" Phase II

Data Package

ANALYTICAL REPORT

ECOSYSTEMS STRATEGIES
60 WORRALL AVE
POUGHKEEPSIE NY 12603

Report Date:	23-NOV-98
Project:	LW97145.40
Lab Number:	195542
Sample Number(s):	195542-01 to 195542-07

Louis J. Cercone
Laboratory Director

STL
315 Fullerton Avenue
Newburgh, NY 12550

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-BC-14A	Date Collected:	19-NOV-98
STL Sample Number:	195542-01	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	90	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2208.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	15000	
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-BC-14B	Date Collected:	19-NOV-98
STL Sample Number:	195542-02	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	87	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2210.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400	1900	
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	3400	
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-N-5	Date Collected:	19-NOV-98
STL Sample Number:	195542-03	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	NA	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2212.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	740	J
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-N-10	Date Collected:	19-NOV-98
STL Sample Number:	195542-04	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	NA	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2214.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	37000	
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

STL
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-WNW-10	Date Collected:	19-NOV-98
STL Sample Number:	195542-05	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	NA	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2216.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1500		U
74-83-9	Bromomethane	1500		U
75-71-8	Dichlorodifluoromethane	1500		U
75-01-4	Vinyl Chloride	1500		U
75-00-3	Chloroethane	1500		U
75-09-2	Methylene Chloride	1500		U
75-69-4	Trichlorofluoromethane	1500		U
75-35-4	1,1-Dichloroethene	1500		U
75-34-3	1,1-Dichloroethane	1500		U
540-59-0	Total-1,2-Dichloroethene	1500	2100	
67-66-3	Chloroform	1500		U
107-06-2	1,2-Dichloroethane	1500		U
71-55-6	1,1,1-Trichloroethane	1500		U
56-23-5	Carbon Tetrachloride	1500		U
75-27-4	Bromodichloromethane	1500		U
78-87-5	1,2-Dichloropropane	1500		U
10061-01-5	cis-1,3-Dichloropropene	1500		U
79-01-6	Trichloroethene	1500		U
124-48-1	Dibromochloromethane	1500		U
10061-02-6	trans-1,3-Dichloropropene	1500		U
79-00-5	1,1,2-Trichloroethane	1500		U
110-75-8	2-Chloroethylvinyl Ether	1500		U
75-25-2	Bromoform	1500		U
79-34-5	1,1,2,2-Tetrachloroethane	1500		U
127-18-4	Tetrachloroethene	1500	50000	
108-90-7	Chlorobenzene	1500		U
541-73-1	1,3-Dichlorobenzene	1500		U
95-50-1	1,2-Dichlorobenzene	1500		U
106-46-7	1,4-Dichlorobenzene	1500		U
74-95-3	Dibromomethane	1500		U
630-20-6	1,1,1,2-Tetrachloroethane	1500		U
96-18-4	1,2,3-Trichloropropane	1500		U
544-10-5	1-Chlorohexane	1500		U
108-86-1	Bromobenzene	1500		U
100-44-7	Benzyl Chloride	1500		U
95-49-8	4-Chlorotoluene	1500		U

STL
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-B-SW-14	Date Collected:	19-NOV-98
STL Sample Number:	195542-06	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	NA	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2218.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	750	J
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

STL
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	II-S-S-14	Date Collected:	19-NOV-98
STL Sample Number:	195542-07	Date Received:	19-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LW97145.40	Date Analyzed:	20-NOV-98
% Solid:	NA	Report Date:	23-NOV-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2220.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	750	J
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

ANALYTICAL REPORT

ECOSYSTEMS STRATEGIES. INC.
60 WORRALL AVE.
POUGHKEEPSIE NY 12590

Report Date:	02-DEC-98
Project:	LM97145-40
Lab Number:	195564
Sample Number(s):	195564-01 to 195564-02

RECEIVED
DEC 03 1998

Louis J. Cercone
Laboratory Director

Volatile Organics Analysis Data Sheet
Form I V0A
8010

Client ID:	IISWSW8-10'	Date Collected:	19-NOV-98
STL Sample Number:	195564-01	Date Received:	20-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	20-NOV-98
% Solid:	90.0	Report Date:	02-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2230.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	70000	
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	IIS5-6'	Date Collected:	19-NOV-98
STL Sample Number:	195564-02	Date Received:	20-NOV-98
Client Name:	ECOSYSTEMS STRATEGIES. INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	20-NOV-98
% Solid:	91.2	Report Date:	02-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	10000ul	Lab File Id:	B2232.D
Level:	MED	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1400		U
74-83-9	Bromomethane	1400		U
75-71-8	Dichlorodifluoromethane	1400		U
75-01-4	Vinyl Chloride	1400		U
75-00-3	Chloroethane	1400		U
75-09-2	Methylene Chloride	1400		U
75-69-4	Trichlorofluoromethane	1400		U
75-35-4	1,1-Dichloroethene	1400		U
75-34-3	1,1-Dichloroethane	1400		U
540-59-0	Total-1,2-Dichloroethene	1400		U
67-66-3	Chloroform	1400		U
107-06-2	1,2-Dichloroethane	1400		U
71-55-6	1,1,1-Trichloroethane	1400		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	1400		U
78-87-5	1,2-Dichloropropane	1400		U
10061-01-5	cis-1,3-Dichloropropene	1400		U
79-01-6	Trichloroethene	1400		U
124-48-1	Dibromochloromethane	1400		U
10061-02-6	trans-1,3-Dichloropropene	1400		U
79-00-5	1,1,2-Trichloroethane	1400		U
110-75-8	2-Chloroethylvinyl Ether	1400		U
75-25-2	Bromoform	1400		U
79-34-5	1,1,2,2-Tetrachloroethane	1400		U
127-18-4	Tetrachloroethene	1400	46000	
108-90-7	Chlorobenzene	1400		U
541-73-1	1,3-Dichlorobenzene	1400		U
95-50-1	1,2-Dichlorobenzene	1400		U
106-46-7	1,4-Dichlorobenzene	1400		U
74-95-3	Dibromomethane	1400		U
630-20-6	1,1,1,2-Tetrachloroethane	1400		U
96-18-4	1,2,3-Trichloropropane	1400		U
544-10-5	1-Chlorohexane	1400		U
108-86-1	Bromobenzene	1400		U
100-44-7	Benzyl Chloride	1400		U
95-49-8	4-Chlorotoluene	1400		U

Stockpiled Soil Data Package

Veritech, 175 Route 46 West, Fairfield, NJ 07004
A Division of HAMPTON-CLARKE, Inc. NJDEPE #14622

CHAIN OF CUSTODY RECORD

PHONE (973) 244-9770
FAX (973) 244-9787

page 2 of 2

CUSTOMER INFORMATION

CUSTOMER: Ecosystems
ADDRESS: 60 Worrall
TELEPHONE: 914-452-1658
PROJECT:
PROJECT MANAGER: Lynn Wojnar
PROJECT LOCATION: Middletown
STATE: NY
PO NUMBER: EM97145-40

REPORT INFORMATION

SEND REPORT TO: Lynn Wojnar
Ecosystems Strategies Inc.
60 Worrall Ave
Rhinebeck NY 12603
SEND INVOICE TO: Johanna Kurtz
Ecosystems

PROJECT INFORMATION

TURNAROUND (CONFIRM RUSH TAT'S WITH LAB)
STANDARD ✓ RUSH
DELIVERABLES (PLEASE CIRCLE):
(STANDARD) ISRA SUST
WASTE REGULATORY
OTHER (Specify)

ANALYTICAL REQUESTS

LAB SAMPLE NUMBER	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE (C)	SAMPLE TYPE: GRAB (G)	SAMPLE MATRIX	NO. OF BOTTLES: HOSO4	HNO3	HCL	NaOH	ZnAc + NaOH	Ascorbic	NONE	OTHER	ANALYSIS
AA72949	SP1-G	9/26/98	1645		G	S								2	8010 Total, 8010 TCLP
↓ 72950	SP1-H	↓	1650		G	S								2	↓ ↓

SAMPLER CERTIFIES THAT EACH SAMPLE RECEIVED PROPER FIELD PRESERVATION (IF REQUIRED) (INITIALS) [illegible]

SAMPLE HAZARDS: ☐ FLAMMABLE ☐ SKIN IRRITANT ☐ NON-HAZARD ☐ UNKNOWN ☐ NOXIOUS FUMES haz.

SPECIAL INSTRUCTIONS:

TEMPERATURE UPON RECEIPT: 3.1°C.

Relinquished by: Lynn Wojnar Agent of: Ecosystems	DATE/TIME 9/29/98 1705	Received by: D. Reichel Agent of: Veritech	DATE/TIME 9/29 1705
Relinquished by: D. Reichel Agent of: Veritech	DATE/TIME 9/29 1850	Received by: Robert Murphy Agent of: Veritech	DATE/TIME 9/29/98 1850

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72940(1/10) *Matrix:* Soil

Client Id: SP2-B *Initial Volume:* 5ml

Data File: fm0117 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 20:32 *Dilution Factor:* 1250

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id. 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7000	U
79345	1,1,2,2-Tetrachloroethane	7000	U
79005	1,1,2-Trichloroethane	7000	U
75343	1,1-Dichloroethane	7000	U
75354	1,1-Dichloroethene	7000	U
95501	1,2-Dichlorobenzene	7000	U
107062	1,2-Dichloroethane	7000	U
78875	1,2-Dichloropropane	7000	U
541731	1,3-Dichlorobenzene	7000	U
106467	1,4-Dichlorobenzene	7000	U
110758	2-Chloroethylvinylether	7000	U
75274	Bromodichloromethane	7000	U
75252	Bromoform	7000	U
74839	Bromomethane	7000	U
56235	Carbon Tetrachloride	7000	U
108907	Chlorobenzene	7000	U
75003	Chloroethane	7000	U
67663	Chloroform	7000	U
74873	Chloromethane	7000	U
156592	Cis-1,2-Dichloroethene	7000	U
10061015	Cis-1,3-Dichloropropene	7000	U
124481	Dibromochloromethane	7000	U
75092	Methylene Chloride	7000	U
127184	Tetrachloroethene	7000	70000
156605	Trans-1,2-Dichloroethene	7000	U
10061026	Trans-1,3-Dichloropropene	7000	U
79016	Trichloroethene	7000	U
75694	Trichlorofluoromethane	7000	U
75014	Vinyl Chloride	7000	U

Total Target Concentration 70000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\Import\84838.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72941(1/10C) *Matrix:* Soil
Client Id: SP3-C *Initial Volume:* 5ml
Data File: fm0124 *Final Volume:* NA
Date Analyzed: 4 Oct 1998 23:27 *Dilution Factor:* 12500
Date Received/Extracted: 9/29/98-NA *Percent Solids:* 88
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/kg(PPB)
71556	1,1,1-Trichloroethane	71000	U
79345	1,1,2,2-Tetrachloroethane	71000	U
79005	1,1,2-Trichloroethane	71000	U
75343	1,1-Dichloroethane	71000	U
75354	1,1-Dichloroethene	71000	U
95501	1,2-Dichlorobenzene	71000	U
107062	1,2-Dichloroethane	71000	U
78875	1,2-Dichloropropane	71000	U
541731	1,3-Dichlorobenzene	71000	U
106467	1,4-Dichlorobenzene	71000	U
110758	2-Chloroethylvinylether	71000	U
75274	Bromodichloromethane	71000	U
75252	Bromoform	71000	U
74839	Bromomethane	71000	U
56235	Carbon Tetrachloride	71000	U
108907	Chlorobenzene	71000	U
75003	Chloroethane	71000	U
67663	Chloroform	71000	U
74873	Chloromethane	71000	U
156592	Cis-1,2-Dichloroethene	71000	U
10061015	Cis-1,3-Dichloropropene	71000	U
124481	Dibromochloromethane	71000	U
75092	Methylene Chloride	71000	U
127184	Tetrachloroethene	71000	560000
156605	Trans-1,2-Dichloroethene	71000	U
10061026	Trans-1,3-Dichloropropene	71000	U
79016	Trichloroethene	71000	U
75694	Trichlorofluoromethane	71000	U
75014	Vinyl Chloride	71000	U

Total Target Concentration 560000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\imoom\84838.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72942(1/10) *Matrix:* Soil

Client Id: SP4-D *Initial Volume:* 5ml

Data File: fm0118 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 20:57 *Dilution Factor:* 1250

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7000	U
79345	1,1,2,2-Tetrachloroethane	7000	U
79005	1,1,2-Trichloroethane	7000	U
75343	1,1-Dichloroethane	7000	U
75354	1,1-Dichloroethene	7000	U
95501	1,2-Dichlorobenzene	7000	U
107062	1,2-Dichloroethane	7000	U
78875	1,2-Dichloropropane	7000	U
541731	1,3-Dichlorobenzene	7000	U
106467	1,4-Dichlorobenzene	7000	U
110758	2-Chloroethylvinylether	7000	U
75274	Bromodichloromethane	7000	U
75252	Bromoform	7000	U
74839	Bromomethane	7000	U
56235	Carbon Tetrachloride	7000	U
108907	Chlorobenzene	7000	U
75003	Chloroethane	7000	U
67663	Chloroform	7000	U
74873	Chloromethane	7000	U
156592	Cis-1,2-Dichloroethene	7000	U
10061015	Cis-1,3-Dichloropropene	7000	U
124481	Dibromochloromethane	7000	U
75092	Methylene Chloride	7000	U
127184	Tetrachloroethene	7000	64000
156605	Trans-1,2-Dichloroethene	7000	U
10061025	Trans-1,3-Dichloropropene	7000	U
79016	Trichloroethene	7000	U
75694	Trichlorofluoromethane	7000	U
75014	Vinyl Chloride	7000	U

Total Target Concentration 64000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84838.rx:

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72943(1/100) *Matrix:* Soil

Client Id: SP1-A *Initial Volume:* 5ml

Data File: fm0126 *Final Volume:* NA

Date Analyzed: 5 Oct 1998 00:17 *Dilution Factor:* 12500

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 92

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	68000	U
79345	1,1,2,2-Tetrachloroethane	68000	U
79005	1,1,2-Trichloroethane	68000	U
75343	1,1-Dichloroethane	68000	U
75354	1,1-Dichloroethene	68000	U
95501	1,2-Dichlorobenzene	68000	U
107062	1,2-Dichloroethane	68000	U
78875	1,2-Dichloropropane	68000	U
541731	1,3-Dichlorobenzene	68000	U
106467	1,4-Dichlorobenzene	68000	U
110758	2-Chloroethylvinylether	68000	U
75274	Bromodichloromethane	68000	U
75252	Bromoform	68000	U
74839	Bromomethane	68000	U
56235	Carbon Tetrachloride	68000	U
108907	Chlorobenzene	68000	U
75003	Chloroethane	68000	U
67663	Chloroform	68000	U
74873	Chloromethane	68000	U
156592	Cis-1,2-Dichloroethene	68000	U
10061015	Cis-1,3-Dichloropropene	68000	U
124481	Dibromochloromethane	68000	U
75092	Methylene Chloride	68000	U
127184	Tetrachloroethene	68000	2100000
156605	Trans-1,2-Dichloroethene	68000	U
10061026	Trans-1,3-Dichloropropene	68000	U
79016	Trichloroethene	68000	U
75694	Trichlorofluoromethane	68000	U
75014	Vinyl Chloride	68000	U

Total Target Concentration 2100000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84838.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72944(1/10) *Matrix:* Soil

Client Id: SP1-B *Initial Volume:* 5ml

Data File: fm0119 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 21:22 *Dilution Factor:* 1250

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7000	U
79345	1,1,2,2-Tetrachloroethane	7000	U
79005	1,1,2-Trichloroethane	7000	U
75343	1,1-Dichloroethane	7000	U
75354	1,1-Dichloroethene	7000	U
95501	1,2-Dichlorobenzene	7000	U
107062	1,2-Dichloroethane	7000	U
78875	1,2-Dichloropropane	7000	U
541731	1,3-Dichlorobenzene	7000	U
106467	1,4-Dichlorobenzene	7000	U
110758	2-Chloroethylvinylether	7000	U
75274	Bromodichloromethane	7000	U
75252	Bromoform	7000	U
74839	Bromomethane	7000	U
56235	Carbon Tetrachloride	7000	U
108907	Chlorobenzene	7000	U
75003	Chloroethane	7000	U
67663	Chloroform	7000	U
74873	Chloromethane	7000	U
156592	Cis-1,2-Dichloroethene	7000	U
10061015	Cis-1,3-Dichloropropene	7000	U
124481	Dibromochloromethane	7000	U
75092	Methylene Chloride	7000	U
127184	Tetrachloroethene	7000	61000
156605	Trans-1,2-Dichloroethene	7000	U
10061026	Trans-1,3-Dichloropropene	7000	U
79016	Trichloroethene	7000	U
75694	Trichlorofluoromethane	7000	U
75014	Vinyl Chloride	7000	U

Total Target Concentration 61000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84838.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72945(1/100) *Matrix:* Soil

Client Id: SP1-C *Initial Volume:* 5ml

Data File: fm0127 *Final Volume:* NA

Date Analyzed: 5 Oct 1998 00:42 *Dilution Factor:* 12500

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 88

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	71000	U
79345	1,1,2,2-Tetrachloroethane	71000	U
79005	1,1,2-Trichloroethane	71000	U
75343	1,1-Dichloroethane	71000	U
75354	1,1-Dichloroethene	71000	U
95501	1,2-Dichlorobenzene	71000	U
107062	1,2-Dichloroethane	71000	U
78875	1,2-Dichloropropane	71000	U
541731	1,3-Dichlorobenzene	71000	U
106467	1,4-Dichlorobenzene	71000	U
110758	2-Chloroethylvinylether	71000	U
75274	Bromodichloromethane	71000	U
75252	Bromoform	71000	U
74839	Bromomethane	71000	U
56235	Carbon Tetrachloride	71000	U
108907	Chlorobenzene	71000	U
75003	Chloroethane	71000	U
67663	Chloroform	71000	U
74873	Chloromethane	71000	U
156592	Cis-1,2-Dichloroethene	71000	U
10061015	Cis-1,3-Dichloropropene	71000	U
124481	Dibromochloromethane	71000	U
75092	Methylene Chloride	71000	U
127184	Tetrachloroethene	71000	1700000
156605	Trans-1,2-Dichloroethene	71000	U
10061026	Trans-1,3-Dichloropropene	71000	U
79016	Trichloroethene	71000	U
75694	Trichlorofluoromethane	71000	U
75014	Vinyl Chloride	71000	U

Total Target Concentration 1700000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84833.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72946(1/10) *Matrix:* Soil
Client Id: SP1-D *Initial Volume:* 5ml
Data File: fm0120 *Final Volume:* NA
Date Analyzed: 4 Oct 1998 21:47 *Dilution Factor:* 1250
Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89
Column: Supelco 105 m vocol col..5 mm id. 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7000	U
79345	1,1,2,2-Tetrachloroethane	7000	U
79005	1,1,2-Trichloroethane	7000	U
75343	1,1-Dichloroethane	7000	U
75354	1,1-Dichloroethene	7000	U
95501	1,2-Dichlorobenzene	7000	U
107062	1,2-Dichloroethane	7000	U
78875	1,2-Dichloropropane	7000	U
541731	1,3-Dichlorobenzene	7000	U
106467	1,4-Dichlorobenzene	7000	U
110758	2-Chloroethylvinylether	7000	U
75274	Bromodichloromethane	7000	U
75252	Bromoform	7000	U
74839	Bromomethane	7000	U
56235	Carbon Tetrachloride	7000	U
108907	Chlorobenzene	7000	U
75003	Chloroethane	7000	U
67663	Chloroform	7000	U
74873	Chloromethane	7000	U
156592	Cis-1,2-Dichloroethene	7000	U
10061015	Cis-1,3-Dichloropropene	7000	U
124481	Dibromochloromethane	7000	U
75092	Methylene Chloride	7000	U
127184	Tetrachloroethene	7000	230000
156605	Trans-1,2-Dichloroethene	7000	U
10061026	Trans-1,3-Dichloropropene	7000	U
79016	Trichloroethene	7000	U
75694	Trichlorofluoromethane	7000	U
75014	Vinyl Chloride	7000	U

Total Target Concentration 230000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84838.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72947(1/100) *Matrix:* Soil

Client Id: SP1-E *Initial Volume:* 5ml

Data File: fm0125 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 23:52 *Dilution Factor:* 12500

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	70000	U
79345	1,1,2,2-Tetrachloroethane	70000	U
79005	1,1,2-Trichloroethane	70000	U
75343	1,1-Dichloroethane	70000	U
75354	1,1-Dichloroethene	70000	U
95501	1,2-Dichlorobenzene	70000	U
107062	1,2-Dichloroethane	70000	U
78875	1,2-Dichloropropane	70000	U
541731	1,3-Dichlorobenzene	70000	U
106467	1,4-Dichlorobenzene	70000	U
110758	2-Chloroethylvinylether	70000	U
75274	Bromodichloromethane	70000	U
75252	Bromoform	70000	U
74839	Bromomethane	70000	U
56235	Carbon Tetrachloride	70000	U
108907	Chlorobenzene	70000	U
75003	Chloroethane	70000	U
67663	Chloroform	70000	U
74873	Chloromethane	70000	U
156592	Cis-1,2-Dichloroethene	70000	U
10061015	Cis-1,3-Dichloropropene	70000	U
124481	Dibromochloromethane	70000	U
75092	Methylene Chloride	70000	U
127184	Tetrachloroethene	70000	380000
156605	Trans-1,2-Dichloroethene	70000	U
10061026	Trans-1,3-Dichloropropene	70000	U
79016	Trichloroethene	70000	U
75694	Trichlorofluoromethane	70000	U
75014	Vinyl Chloride	70000	U

Total Target Concentration 380000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84838.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72948(1/10) *Matrix:* Soil

Client Id: SP1-F *Initial Volume:* 5ml

Data File: fm0121 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 22:12 *Dilution Factor:* 1250

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 90

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	6900	U
79345	1,1,2,2-Tetrachloroethane	6900	U
79005	1,1,2-Trichloroethane	6900	U
75343	1,1-Dichloroethane	6900	U
75354	1,1-Dichloroethene	6900	U
95501	1,2-Dichlorobenzene	6900	U
107062	1,2-Dichloroethane	6900	U
78875	1,2-Dichloropropane	6900	U
541731	1,3-Dichlorobenzene	6900	U
106467	1,4-Dichlorobenzene	6900	U
110758	2-Chloroethylvinylether	6900	U
75274	Bromodichloromethane	6900	U
75252	Bromoform	6900	U
74839	Bromomethane	6900	U
56235	Carbon Tetrachloride	6900	U
108907	Chlorobenzene	6900	U
75003	Chloroethane	6900	U
67663	Chloroform	6900	U
74873	Chloromethane	6900	U
156592	Cis-1,2-Dichloroethene	6900	U
10061015	Cis-1,3-Dichloropropene	6900	U
124481	Dibromochloromethane	6900	U
75092	Methylene Chloride	6900	U
127184	Tetrachloroethene	6900	46000
156605	Trans-1,2-Dichloroethene	6900	U
10061026	Trans-1,3-Dichloropropene	6900	U
79016	Trichloroethene	6900	U
75694	Trichlorofluoromethane	6900	U
75014	Vinyl Chloride	6900	U

Total Target Concentration 46000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File n:\impact\84838.cx

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72949(1/10) *Matrix:* Soil

Client Id: SP1-G *Initial Volume:* 5ml

Data File: fm0122 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 22:37 *Dilution Factor:* 1250

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7000	U
79345	1,1,2,2-Tetrachloroethane	7000	U
79005	1,1,2-Trichloroethane	7000	U
75343	1,1-Dichloroethane	7000	U
75354	1,1-Dichloroethene	7000	U
95501	1,2-Dichlorobenzene	7000	U
107062	1,2-Dichloroethane	7000	U
78875	1,2-Dichloropropane	7000	U
541731	1,3-Dichlorobenzene	7000	U
106467	1,4-Dichlorobenzene	7000	U
110758	2-Chloroethylvinylether	7000	U
75274	Bromodichloromethane	7000	U
75252	Bromoform	7000	U
74839	Bromomethane	7000	U
56235	Carbon Tetrachloride	7000	U
108907	Chlorobenzene	7000	U
75003	Chloroethane	7000	U
67663	Chloroform	7000	U
74873	Chloromethane	7000	U
156592	Cis-1,2-Dichloroethene	7000	U
10061015	Cis-1,3-Dichloropropene	7000	U
124481	Dibromochloromethane	7000	U
75092	Methylene Chloride	7000	U
127184	Tetrachloroethene	7000	430000
156605	Trans-1,2-Dichloroethene	7000	U
10061026	Trans-1,3-Dichloropropene	7000	U
79016	Trichloroethene	7000	U
75694	Trichlorofluoromethane	7000	U
75014	Vinyl Chloride	7000	U

Total Target Concentration 400000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\impor\84836.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72950(1/10) *Matrix:* Soil

Client Id: SP1-H *Initial Volume:* 5ml

Data File: fm0123 *Final Volume:* NA

Date Analyzed: 4 Oct 1998 23:02 *Dilution Factor:* 1250

Date Received/Extracted: 9/29/98-NA *Percent Solids:* 89

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* ug/Kg(PPB)
71556	1,1,1-Trichloroethane	7000	U
79345	1,1,2,2-Tetrachloroethane	7000	U
79005	1,1,2-Trichloroethene	7000	U
75343	1,1-Dichloroethane	7000	U
75354	1,1-Dichloroethene	7000	U
95501	1,2-Dichlorobenzene	7000	U
107062	1,2-Dichloroethane	7000	U
78875	1,2-Dichloropropane	7000	U
541731	1,3-Dichlorobenzene	7000	U
106467	1,4-Dichlorobenzene	7000	U
110758	2-Chloroethylvinylether	7000	U
75274	Bromodichloromethane	7000	U
75252	Bromoform	7000	U
74839	Bromomethane	7000	U
56235	Carbon Tetrachloride	7000	U
108907	Chlorobenzene	7000	U
75003	Chloroethane	7000	U
67663	Chloroform	7000	U
74873	Chloromethane	7000	U
156592	Cis-1,2-Dichloroethene	7000	U
10061015	Cis-1,3-Dichloropropene	7000	U
124481	Dibromochloromethane	7000	U
75092	Methylene Chloride	7000	U
127184	Tetrachloroethene	7000	230000
156605	Trans-1,2-Dichloroethene	7000	U
10061026	Trans-1,3-Dichloropropene	7000	U
79016	Trichloroethene	7000	U
75694	Trichlorofluoromethane	7000	U
75014	Vinyl Chloride	7000	U

Total Target Concentration 230000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84838.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72939(1/5) *Matrix:* Water

Client Id: SP2-A *Initial Volume:* 5ml

Data File: f15531 *Final Volume:* NA

Date Analyzed: 13 Oct 1998 21:20 *Dilution Factor:* 5

Date Received/Extracted: 9/29/98-10/6/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.025	U
107062	1,2-Dichloroethane	0.025	U
106467	1,4-Dichlorobenzene	0.025	U
78933	2-Butanone	0.12	U
71432	Benzene	0.0050	U
56235	Carbon Tetrachloride	0.025	U
108907	Chlorobenzene	0.025	U
67663	Chloroform	0.025	U
127184	Tetrachloroethene	0.025	0.97
79016	Trichloroethene	0.025	U
75014	Vinyl Chloride	0.025	U

Total Target Concentration 0.97

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates that analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\Import\84940.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72940 *Matrix:* Water
Client Id: SP2-B *Initial Volume:* 5ml
Data File: fi5471 *Final Volume:* NA
Date Analyzed: 12 Oct 1998 13:04 *Dilution Factor:* 1
Date Received/Extracted: 9/29/98-10/7/98 *Percent Solids:* 0
Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	Compound	PQL/MDL	Concentration ug/L (PPM)
75354	1,1-Dichloroethene	0.0050	U
107062	1,2-Dichloroethane	0.0050	U
106467	1,4-Dichlorobenzene	0.0050	U
78933	2-Butanone	0.025	U
71432	Benzene	0.0010	U
56235	Carbon Tetrachloride	0.0050	U
108907	Chlorobenzene	0.0050	U
67663	Chloroform	0.0050	U
127184	Tetrachloroethene	0.0050	0.31
79016	Trichloroethene	0.0050	0.0021 J
75014	Vinyl Chloride	0.0050	U

Total Target Concentration 0.31

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84940.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72941(1/100) *Matrix:* Water
Client Id: SP3-C *Initial Volume:* 5ml
Data File: fi5480 *Final Volume:* NA
Date Analyzed: 12 Oct 1998 17:01 *Dilution Factor:* 100
Date Received/Extracted: 9/29/98-10/7/98 *Percent Solids:* 0
Column: J&W-Scientific db-624 75m..5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.50	U
107062	1,2-Dichloroethane	0.50	U
106467	1,4-Dichlorobenzene	0.50	U
78933	2-Butanone	2.5	U
71432	Benzene	0.10	U
56235	Carbon Tetrachloride	0.50	U
108907	Chlorobenzene	0.50	U
67663	Chloroform	0.50	U
127184	Tetrachloroethene	0.50	12
79016	Trichloroethene	0.50	U
75014	Vinyl Chloride	0.50	U

Total Target Concentration 12

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84940.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72942 *Matrix:* Water

Client Id: SP4-D *Initial Volume:* 5ml

Data File: fi6473 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 13:56 *Dilution Factor:* 1

Date Received/Extracted: 9/29/98-10/7/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	Compound	PQL/MDL	Concentration mg/L (PPM)
75354	1,1-Dichloroethene	0.0050	U
107062	1,2-Dichloroethane	0.0050	U
106467	1,4-Dichlorobenzene	0.0050	U
78933	2-Butanone	0.025	U
71432	Benzene	0.0010	U
56235	Carbon Tetrachloride	0.0050	U
108907	Chlorobenzene	0.0050	U
67663	Chloroform	0.0050	U
127184	Tetrachloroethene	0.0050	0.33
79016	Trichloroethene	0.0050	0.0021 J
75014	Vinyl Chloride	0.0050	U

Total Target Concentration 0.33

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\Import\84940.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72943(1/100) *Matrix:* Water

Client Id: SP1-A *Initial Volume:* 5ml

Data File: fi5481 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 17:28 *Dilution Factor:* 100

Date Received/Extracted: 9/29/98-10/8/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.50	U
107062	1,2-Dichloroethane	0.50	U
106467	1,4-Dichlorobenzene	0.50	U
78933	2-Butanone	2.5	U
71432	Benzene	0.10	U
56235	Carbon Tetrachloride	0.50	U
108907	Chlorobenzene	0.50	U
67663	Chloroform	0.50	U
127184	Tetrachloroethene	0.50	17
79016	Trichloroethene	0.50	U
75014	Vinyl Chloride	0.50	U

Total Turget Concentration 17

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84940.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AA72944 *Matrix:* Water

Client Id: SP1-B *Initial Volume:* 5ml

Data File: fi5475 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 14:49 *Dilution Factor:* 1

Date Received/Extracted: 9/29/98-10/8/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.0030	U
107062	1,2-Dichloroethane	0.0050	U
106467	1,4-Dichlorobenzene	0.0050	U
78933	2-Butanone	0.025	U
71432	Benzene	0.0010	U
56235	Carbon Tetrachlorice	0.0060	U
108907	Chlorobenzene	0.0050	U
67663	Chloroform	0.0050	U
127184	Tetrachloroethene	0.0050	0.34
79016	Trichloroethene	0.0050	0.0030 J
75014	Vinyl Chloride	0.0050	U

Total Target Concentration 0.34

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File n:\hmpcm\84940.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72945(1/500) *Matrix:* Water

Client Id: SP1-C *Initial Volume:* 5ml

Data File: fi5482 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 17:52 *Dilution Factor:* 500

Date Received/Extracted: 9/29/98-10/8/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	2.5	U
107062	1,2-Dichloroethane	2.5	U
106467	1,4-Dichlorobenzene	2.5	U
78933	2-Butanone	13	U
71432	Benzene	0.50	U
56235	Carbon Tetrachloride	2.5	U
108907	Chlorobenzene	2.5	U
67663	Chloroform	2.5	U
127184	Tetrachloroethene	2.5	35
79016	Trichloroethene	2.5	U
75014	Vinyl Chloride	2.5	U

Total Target Concentration 35

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\84940.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72945(1/5) *Matrix:* Water

Client Id: SP1-D *Initial Volume:* 5ml

Data File: fi5477 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 15:41 *Dilution Factor:* 5

Date Received/Extracted: 9/29/98-10/9/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m..5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.025	U
107062	1,2-Dichloroethane	0.025	U
106467	1,4-Dichlorobenzene	0.025	U
78933	2-Butanone	0.12	U
71432	Benzene	0.0050	U
56235	Carbon Tetrachloride	0.025	U
108907	Chlorobenzene	0.025	U
67663	Chloroform	0.025	U
127184	Tetrachloroethene	0.025	1.7
79016	Trichloroethene	0.025	U
75014	Vinyl Chloride	0.025	U

Total Target Concentration 1.7

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\04340.txt

Form I

ORGANICS VOLATILE REPORT

Sample Number: AA72947(1/100) *Matrix:* Water

Client Id: SP1-E *Initial Volume:* 5ml

Data File: f15493 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 22:38 *Dilution Factor:* 100

Date Received/Extracted: 9/29/98-10/9/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.50	U
107062	1,2-Dichloroethane	0.50	U
106467	1,4-Dichlorobenzene	0.50	U
78933	2-Butanone	2.5	U
71432	Benzene	0.10	U
56235	Carbon Tetrachloride	0.50	U
108907	Chlorobenzene	0.50	U
67663	Chloroform	0.50	U
127184	Tetrachloroethene	0.50	3.5
79016	Trichloroethene	0.50	U
75014	Vinyl Chloride	0.50	U

Total Target Concentration 3.5

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File c:\impor\54940.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72948(1/5) *Matrix:* Water

Client Id: SP1-F *Initial Volume:* 5ml

Data File: fi5479 *Final Volume:* NA

Date Analyzed: 12 Oct 1998 16:34 *Dilution Factor:* 5

Date Received/Extracted: 9/29/98-10/9/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	Compound	PQL/MDL	Concentration mg/L (PPM)	
75354	1,1-Dichloroethene	0.025	U	
107062	1,2-Dichloroethane	0.025	U	
106467	1,4-Dichlorobenzene	0.025	U	
78933	2-Butanone	0.12	U	
71432	Benzene	0.0050	U	
56235	Carbon Tetrachloride	0.025	U	
108907	Chlorobenzene	0.025	U	
67663	Chloroform	0.025	U	
127184	Tetrachloroethene	0.025	0.44	
79016	Trichloroethene	0.025	U	
75014	Vinyl Chloride	0.025	U	

Total Target Concentration 0.44

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\impor\84940.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72949(1/10) *Matrix:* Water

Client Id: SP1-G *Initial Volume:* 5ml

Data File: fi5529 *Final Volume:* NA

Date Analyzed: 13 Oct 1998 20:27 *Dilution Factor:* 10

Date Received/Extracted: 9/29/98-10/12/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.050	U
107062	1,2-Dichloroethane	0.050	U
106467	1,4-Dichlorobenzene	0.050	U
78933	2-Butanone	0.25	U
71432	Benzene	0.010	U
56235	Carbon Tetrachloride	0.050	U
108907	Chlorobenzene	0.050	U
67663	Chloroform	0.050	U
127184	Tetrachloroethene	0.050	2.8
79016	Trichloroethene	0.050	U
75014	Vinyl Chloride	0.050	U

Total Target Concentration 2.8

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\impart\8494c.txt

Form1

ORGANICS VOLATILE REPORT

Sample Number: AA72950(1/10) *Matrix:* Water

Client Id: SP1-H *Initial Volume:* 5ml

Data File: fl5530 *Final Volume:* NA

Date Analyzed: 13 Oct 1998 20:54 *Dilution Factor:* 10

Date Received/Extracted: 9/29/98-10/12/98 *Percent Solids:* 0

Column: J&W-Scientific db-624 75m,.5 mm id, 1.5 um film

CAS #	*Compound*	*PQL/MDL*	*Concentration* mg/L (PPM)
75354	1,1-Dichloroethene	0.050	U
1C7062	1,2-Dichloroethane	0.050	U
1C6487	1,4-Dichlorobenzene	0.050	U
78933	2-Butanone	0.25	U
71432	Benzene	0.010	U
56235	Carbon Tetrachloride	0.050	U
1C8907	Chlorobenzene	0.050	U
67663	Chloroform	0.050	U
127184	Tetrachloroethene	0.050	2.1
79016	Trichloroethene	0.050	U
75014	Vinyl Chloride	0.050	U

Total Target Concentration 2.1

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\Import\84940.txt

ANALYTICAL REPORT

ECOSYSTEMS STRATEGIES, INC.
60 WARRALL AVE.
POUGHKEEPSIE NY 12603

Report Date:	15-DEC-98
Project:	LM97145-40
Lab Number:	195956
Sample Number(s):	195956-01 to 195956-16

RECEIVED
DEC 21 1998

Louis J. Cercone
Laboratory Director

315 Fullerton Avenue
Newburgh, NY 12550

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	S-SP-1	Date Collected:	02-DEC-98
STL Sample Number:	195956-01	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	09-DEC-98
% Solid:	92.3	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	5g	Lab File Id:	A9872.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1.1		U
74-83-9	Bromomethane	1.1		U
75-71-8	Dichlorodifluoromethane	1.1		U
75-01-4	Vinyl Chloride	1.1		U
75-00-3	Chloroethane	1.1		U
75-09-2	Methylene Chloride	1.1		U
75-69-4	Trichlorofluoromethane	1.1		U
75-35-4	1,1-Dichloroethene	1.1		U
75-34-3	1,1-Dichloroethane	1.1		U
540-59-0	Total-1,2-Dichloroethene	1.1	8.1	
67-66-3	Chloroform	1.1		U
107-06-2	1,2-Dichloroethane	1.1		U
71-55-6	1,1,1-Trichloroethane	1.1		U
56-23-5	Carbon Tetrachloride	1.1		U
75-27-4	Bromodichloromethane	1.1		U
78-87-5	1,2-Dichloropropane	1.1		U
10061-01-5	cis-1,3-Dichloropropene	1.1		U
79-01-6	Trichloroethene	1.1		U
124-48-1	Dibromochloromethane	1.1		U
10061-02-6	trans-1,3-Dichloropropen	1.1		U
79-00-5	1,1,2-Trichloroethane	1.1		U
110-75-8	2-Chloroethylvinyl Ether	1.1		U
75-25-2	Bromoform	1.1		U
79-34-5	1,1,2,2-Tetrachloroethan	1.1		U
127-18-4	Tetrachloroethene	1.1	17	
108-90-7	Chlorobenzene	1.1		U
541-73-1	1,3-Dichlorobenzene	1.1		U
95-50-1	1,2-Dichlorobenzene	1.1		U
106-46-7	1,4-Dichlorobenzene	1.1		U
74-95-3	Dibromomethane	1.1		U
630-20-6	1,1,1,2-Tetrachloroethan	1.1		U
96-18-4	1,2,3-Trichloropropane	1.1		U
544-10-5	1-Chlorohexane	1.1		U
108-86-1	Bromobenzene	1.1		U
100-44-7	Benzyl Chloride	1.1		U
95-49-8	4-Chlorotoluene	1.1		U

Volatile Organics Analysis Data Sheet
Form I VOA
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Client ID:	S-SP-2	Date Collected:	02-DEC-98
STL Sample Number:	195956-02	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	07-DEC-98
% Solid:	89.0	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	1g	Lab File Id:	A9803.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	5.6		U
74-83-9	Bromomethane	5.6		U
75-71-8	Dichlorodifluoromethane	5.6		U
75-01-4	Vinyl Chloride	5.6		U
75-00-3	Chloroethane	5.6		U
75-09-2	Methylene Chloride	5.6		U
75-69-4	Trichlorofluoromethane	5.6		U
75-35-4	1,1-Dichloroethene	5.6		U
75-34-3	1,1-Dichloroethane-	5.6		U
540-59-0	Total-1,2-Dichloroethene	5.6		U
67-66-3	Chloroform	5.6		U
107-06-2	1,2-Dichloroethane	5.6		U
71-55-6	1,1,1-Trichloroethane	5.6		U
56-23-5	Carbon Tetrachloride	5.6		U
75-27-4	Bromodichloromethane	5.6		U
78-87-5	1,2-Dichloropropane	5.6		U
10061-01-5	cis-1,3-Dichloropropene	5.6		U
79-01-6	Trichloroethene	5.6		U
124-48-1	Dibromochloromethane	5.6		U
10061-02-6	trans-1,3-Dichloropropen	5.6		U
79-00-5	1,1,2-Trichloroethane	5.6		U
110-75-8	2-Chloroethylvinyl Ether	5.6		U
75-25-2	Bromoform	5.6		U
79-34-5	1,1,2,2-Tetrachloroethan	5.6		U
127-18-4	Tetrachloroethene	5.6	190	
108-90-7	Chlorobenzene	5.6		U
541-73-1	1,3-Dichlorobenzene	5.6		U
95-50-1	1,2-Dichlorobenzene	5.6		U
106-46-7	1,4-Dichlorobenzene	5.6		U
74-95-3	Dibromomethane	5.6		U
630-20-6	1,1,1,2-Tetrachloroethan	5.6		U
96-18-4	1,2,3-Trichloropropane	5.6		U
544-10-5	1-Chlorohexane	5.6		U
108-86-1	Bromobenzene	5.6		U
100-44-7	Benzyl Chloride	5.6		U
95-49-8	4-Chlorotoluene	5.6		U

Volatile Organics Analysis Data Sheet
Form I VOA
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Client ID:	S-SP-3	Date Collected:	02-DEC-98
STL Sample Number:	195956-03	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	04-DEC-98
% Solid:	92.7	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	5g	Lab File Id:	A9864.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1.1		U
74-83-9	Bromomethane	1.1		U
75-71-8	Dichlorodifluoromethane	1.1		U
75-01-4	Vinyl Chloride	1.1		U
75-00-3	Chloroethane	1.1		U
75-09-2	Methylene Chloride	1.1		U
75-69-4	Trichlorofluoromethane	1.1		U
75-35-4	1,1-Dichloroethene	1.1		U
75-34-3	1,1-Dichloroethane	1.1		U
540-59-0	Total-1,2-Dichloroethene	1.1	24	
67-66-3	Chloroform	1.1		U
107-06-2	1,2-Dichloroethane	1.1		U
71-55-6	1,1,1-Trichloroethane	1.1		U
56-23-5	Carbon Tetrachloride	1.1		U
75-27-4	Bromodichloromethane	1.1		U
78-87-5	1,2-Dichloropropane	1.1		U
10061-01-5	cis-1,3-Dichloropropene	1.1		U
79-01-6	Trichloroethene	1.1	2.5	
124-48-1	Dibromochloromethane	1.1		U
10061-02-6	trans-1,3-Dichloropropen	1.1		U
79-00-5	1,1,2-Trichloroethane	1.1		U
110-75-8	2-Chloroethylvinyl Ether	1.1		U
75-25-2	Bromoform	1.1		U
79-34-5	1,1,2,2-Tetrachloroethan	1.1		U
127-18-4	Tetrachloroethene	1.1	1200	D
108-90-7	Chlorobenzene	1.1		U
541-73-1	1,3-Dichlorobenzene	1.1		U
95-50-1	1,2-Dichlorobenzene	1.1		U
106-46-7	1,4-Dichlorobenzene	1.1		U
74-95-3	Dibromomethane	1.1		U
630-20-6	1,1,1,2-Tetrachloroethan	1.1	2.2	
96-18-4	1,2,3-Trichloropropane	1.1		U
544-10-5	1-Chlorohexane	1.1		U
108-86-1	Bromobenzene	1.1		U
100-44-7	Benzyl Chloride	1.1		U
95-49-8	4-Chlorotoluene	1.1		U

Volatile Organics Analysis Data Sheet
Form I VOA
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Client ID:	S-SP-4	Date Collected:	02-DEC-98
STL Sample Number:	195956-04	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	04-DEC-98
% Solid:	86.2	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	5g	Lab File Id:	A9866.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1.2		U
74-83-9	Bromomethane	1.2		U
75-71-8	Dichlorodifluoromethane	1.2		U
75-01-4	Vinyl Chloride	1.2		U
75-00-3	Chloroethane	1.2		U
75-09-2	Methylene Chloride	1.2		U
75-69-4	Trichlorofluoromethane	1.2		U
75-35-4	1,1-Dichloroethene	1.2		U
75-34-3	1,1-Dichloroethane	1.2		U
540-59-0	Total-1,2-Dichloroethene	1.2	23	
67-66-3	Chloroform	1.2		U
107-06-2	1,2-Dichloroethane	1.2		U
71-55-6	1,1,1-Trichloroethane	1.2		U
56-23-5	Carbon Tetrachloride	1.2		U
75-27-4	Bromodichloromethane	1.2		U
78-87-5	1,2-Dichloropropane	1.2		U
10061-01-5	cis-1,3-Dichloropropene	1.2		U
79-01-6	Trichloroethene	1.2	5.6	
124-48-1	Dibromochloromethane	1.2		U
10061-02-6	trans-1,3-Dichloropropen	1.2		U
79-00-5	1,1,2-Trichloroethane	1.2		U
110-75-8	2-Chloroethylvinyl Ether	1.2		U
75-25-2	Bromoform	1.2		U
79-34-5	1,1,2,2-Tetrachloroethan	1.2		U
127-18-4	Tetrachloroethene	1.2	610	D
108-90-7	Chlorobenzene	1.2		U
541-73-1	1,3-Dichlorobenzene	1.2		U
95-50-1	1,2-Dichlorobenzene	1.2		U
106-46-7	1,4-Dichlorobenzene	1.2		U
74-95-3	Dibromomethane	1.2		U
630-20-6	1,1,1,2-Tetrachloroethan	1.2		U
96-18-4	1,2,3-Trichloropropane	1.2		U
544-10-5	1-Chlorohexane	1.2		U
108-86-1	Bromobenzene	1.2		U
100-44-7	Benzyl Chloride	1.2		U
95-49-8	4-Chlorotoluene	1.2		U

Volatile Organics Analysis Data Sheet
Form I VOA
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Client ID:	N-SP-1	Date Collected:	02-DEC-98
STL Sample Number:	195956-05	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	09-DEC-98
% Solid:	94.0	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	5g	Lab File Id:	A9864.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1.1		U
74-83-9	Bromomethane	1.1		U
75-71-8	Dichlorodifluoromethane	1.1		U
75-01-4	Vinyl Chloride	1.1		U
75-00-3	Chloroethane	1.1		U
75-09-2	Methylene Chloride	1.1		U
75-69-4	Trichlorofluoromethane	1.1		U
75-35-4	1,1-Dichloroethene	1.1		U
75-34-3	1,1-Dichloroethane	1.1		U
540-59-0	Total-1,2-Dichloroethene	1.1		U
67-66-3	Chloroform	1.1		U
107-06-2	1,2-Dichloroethane	1.1		U
71-55-6	1,1,1-Trichloroethane	1.1		U
56-23-5	Carbon Tetrachloride	1.1		U
75-27-4	Bromodichloromethane	1.1		U
78-87-5	1,2-Dichloropropane	1.1		U
10061-01-5	cis-1,3-Dichloropropene	1.1		U
79-01-6	Trichloroethene	1.1	.7	J
124-48-1	Dibromochloromethane	1.1		U
10061-02-6	trans-1,3-Dichloropropen	1.1		U
79-00-5	1,1,2-Trichloroethane	1.1		U
110-75-8	2-Chloroethylvinyl Ether	1.1		U
75-25-2	Bromoform	1.1		U
79-34-5	1,1,2,2-Tetrachloroethan	1.1		U
127-18-4	Tetrachloroethene	1.1	34	
108-90-7	Chlorobenzene	1.1		U
541-73-1	1,3-Dichlorobenzene	1.1		U
95-50-1	1,2-Dichlorobenzene	1.1		U
106-46-7	1,4-Dichlorobenzene	1.1		U
74-95-3	Dibromomethane	1.1		U
630-20-6	1,1,1,2-Tetrachloroethan	1.1		U
96-18-4	1,2,3-Trichloropropane	1.1		U
544-10-5	1-Chlorohexane	1.1		U
108-86-1	Bromobenzene	1.1		U
100-44-7	Benzyl Chloride	1.1		U
95-49-8	4-Chlorotoluene	1.1		U

Volatile Organics Analysis Data Sheet
Form I VOA
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Client ID:	N-SP-2	Date Collected:	02-DEC-98
STL Sample Number:	195956-06	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	09-DEC-98
% Solid:	87.8	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	1g	Lab File Id:	A9894.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	5.7		U
74-83-9	Bromomethane	5.7		U
75-71-8	Dichlorodifluoromethane	5.7		U
75-01-4	Vinyl Chloride	5.7		U
75-00-3	Chloroethane	5.7		U
75-09-2	Methylene Chloride	5.7		U
75-69-4	Trichlorofluoromethane	5.7		U
75-35-4	1,1-Dichloroethene	5.7		U
75-34-3	1,1-Dichloroethane	5.7		U
540-59-0	Total-1,2-Dichloroethene	5.7		U
67-66-3	Chloroform	5.7		U
107-06-2	1,2-Dichloroethane	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
56-23-5	Carbon Tetrachloride	5.7		U
75-27-4	Bromodichloromethane	5.7		U
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
79-01-6	Trichloroethene	5.7		U
124-48-1	Dibromochloromethane	5.7		U
10061-02-6	trans-1,3-Dichloropropen	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
110-75-8	2-Chloroethylvinyl Ether	5.7		U
75-25-2	Bromoform	5.7		U
79-34-5	1,1,2,2-Tetrachloroethan	5.7		U
127-18-4	Tetrachloroethene	5.7	66	
108-90-7	Chlorobenzene	5.7		U
541-73-1	1,3-Dichlorobenzene	5.7		U
95-50-1	1,2-Dichlorobenzene	5.7		U
106-46-7	1,4-Dichlorobenzene	5.7		U
74-95-3	Dibromomethane	5.7		U
630-20-6	1,1,1,2-Tetrachloroethan	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
544-10-5	1-Chlorohexane	5.7		U
108-86-1	Bromobenzene	5.7		U
100-44-7	Benzyl Chloride	5.7		U
95-49-8	4-Chlorotoluene	5.7		U

Volatile Organics Analysis Data Sheet
Form I VOA
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Client ID:	N-SP-3	Date Collected:	02-DEC-98
STL Sample Number:	195956-07	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	09-DEC-98
% Solid:	88.8	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	5g	Lab File Id:	A9874.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	1.1		U
74-83-9	Bromomethane	1.1		U
75-71-8	Dichlorodifluoromethane	1.1		U
75-01-4	Vinyl Chloride	1.1		U
75-00-3	Chloroethane	1.1		U
75-09-2	Methylene Chloride	1.1		U
75-69-4	Trichlorofluoromethane	1.1		U
75-35-4	1,1-Dichloroethene	1.1		U
75-34-3	1,1-Dichloroethane	1.1		U
540-59-0	Total-1,2-Dichloroethene	1.1		U
67-66-3	Chloroform	1.1		U
107-06-2	1,2-Dichloroethane	1.1		U
71-55-6	1,1,1-Trichloroethane	1.1		U
56-23-5	Carbon Tetrachloride	1.1		U
75-27-4	Bromodichloromethane	1.1		U
78-87-5	1,2-Dichloropropane	1.1		U
10061-01-5	cis-1,3-Dichloropropene	1.1		U
79-01-6	Trichloroethene	1.1	.6	J
124-48-1	Dibromochloromethane	1.1		U
10061-02-6	trans-1,3-Dichloropropen	1.1		U
79-00-5	1,1,2-Trichloroethane	1.1		U
110-75-8	2-Chloroethylvinyl Ether	1.1		U
75-25-2	Bromoform	1.1		U
79-34-5	1,1,2,2-Tetrachloroethan	1.1		U
127-18-4	Tetrachloroethene	1.1	30	
108-90-7	Chlorobenzene	1.1		U
541-73-1	1,3-Dichlorobenzene	1.1		U
95-50-1	1,2-Dichlorobenzene	1.1		U
106-46-7	1,4-Dichlorobenzene	1.1		U
74-95-3	Dibromomethane	1.1		U
630-20-6	1,1,1,2-Tetrachloroethan	1.1		U
96-18-4	1,2,3-Trichloropropane	1.1		U
544-10-5	1-Chlorohexane	1.1		U
108-86-1	Bromobenzene	1.1		U
100-44-7	Benzyl Chloride	1.1		U
95-49-8	4-Chlorotoluene	1.1		U

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	N-SP-4	Date Collected:	02-DEC-98
STL Sample Number:	195956-08	Date Received:	02-DEC-98
Client Name:	ECOSYSTEMS STRATEGIES, INC.	Date Extracted:	
Project Name:	LM97145-40	Date Analyzed:	09-DEC-98
% Solid:	92.7	Report Date:	15-DEC-98
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	1g	Lab File Id:	A9889.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/kg	Conc. ug/kg	Data Qualifier
74-87-3	Chloromethane	5.4		U
74-83-9	Bromomethane	5.4		U
75-71-8	Dichlorodifluoromethane	5.4		U
75-01-4	Vinyl Chloride	5.4		U
75-00-3	Chloroethane	5.4		U
75-09-2	Methylene Chloride	5.4		U
75-69-4	Trichlorofluoromethane	5.4		U
75-35-4	1,1-Dichloroethene	5.4		U
75-34-3	1,1-Dichloroethane	5.4		U
540-59-0	Total-1,2-Dichloroethene	5.4		U
67-66-3	Chloroform	5.4		U
107-06-2	1,2-Dichloroethane	5.4		U
71-55-6	1,1,1-Trichloroethane	5.4		U
56-23-5	Carbon Tetrachloride	5.4		U
75-27-4	Bromodichloromethane	5.4		U
78-87-5	1,2-Dichloropropane	5.4		U
10061-01-5	cis-1,3-Dichloropropene	5.4		U
79-01-6	Trichloroethene	5.4		U
124-48-1	Dibromochloromethane	5.4		U
10061-02-6	trans-1,3-Dichloropropen	5.4		U
79-00-5	1,1,2-Trichloroethane	5.4		U
110-75-8	2-Chloroethylvinyl Ether	5.4		U
75-25-2	Bromoform	5.4		U
79-34-5	1,1,2,2-Tetrachloroethan	5.4		U
127-18-4	Tetrachloroethene	5.4	31	
108-90-7	Chlorobenzene	5.4		U
541-73-1	1,3-Dichlorobenzene	5.4		U
95-50-1	1,2-Dichlorobenzene	5.4		U
106-46-7	1,4-Dichlorobenzene	5.4		U
74-95-3	Dibromomethane	5.4		U
630-20-6	1,1,1,2-Tetrachloroethan	5.4		U
96-18-4	1,2,3-Trichloropropane	5.4		U
544-10-5	1-Chlorohexane	5.4		U
108-86-1	Bromobenzene	5.4		U
100-44-7	Benzyl Chloride	5.4		U
95-49-8	4-Chlorotoluene	5.4		U

ANALYTICAL REPORT

ECOSYSTEMS STRATEGIES
60 WORRALL AVE.
POUGHKEEPSIE NY 12603

Report Date:	12-JAN-99
Project:	LM97145.40
Lab Number:	197340
Sample Number(s):	197340-01
	to
	197340-01

RECEIVED
JAN 13 1999

Louis J. Cercone
Laboratory Director

Volatile Organics Analysis Data Sheet
Form I VOA
8010

Client ID:	SOUTH GRAB-1 MIDDLETOWN	Date Collected:	23-DEC-98
STL Sample Number:	197340-01	Date Received:	04-JAN-99
Client Name:	ECOSYSTEMS STRATEGIES	Date Extracted:	
Project Name:	LM97145.40	Date Analyzed:	06-JAN-99
% Solid:	90.9	Report Date:	12-JAN-99
Matrix:	3 Soil/Sldg	Column:	RTX-502.2
Sample Wt/Vol:	5ml	Lab File Id:	A0490.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
74-87-3	Chloromethane	1.1		U
74-83-9	Bromomethane	1.1		U
75-71-8	Dichlorodifluoromethane	1.1		U
75-01-4	Vinyl Chloride	1.1		U
75-00-3	Chloroethane	1.1		U
75-09-2	Methylene Chloride	1.1		U
75-69-4	Trichlorofluoromethane	1.1		U
75-35-4	1,1-Dichloroethene	1.1		U
75-34-3	1,1-Dichloroethane	1.1		U
540-59-0	Total-1,2-Dichloroethene	1.1	53	
67-66-3	Chloroform	1.1		U
107-06-2	1,2-Dichloroethane	1.1		U
71-55-6	1,1,1-Trichloroethane	1.1		U
56-23-5	Carbon Tetrachloride	1.1		U
75-27-4	Bromodichloromethane	1.1		U
78-87-5	1,2-Dichloropropane	1.1		U
10061-01-5	cis-1,3-Dichloropropene	1.1		U
79-01-6	Trichloroethene	1.1	11	
124-48-1	Dibromochloromethane	1.1		U
10061-02-6	trans-1,3-Dichloropropene	1.1		U
79-00-5	1,1,2-Trichloroethane	1.1		U
110-75-8	2-Chloroethylvinyl Ether	1.1		U
75-25-2	Bromoform	1.1		U
79-34-5	1,1,2,2-Tetrachloroethane	1.1		U
127-18-4	Tetrachloroethene	1.1	280	D
108-90-7	Chlorobenzene	1.1	9.3	
541-73-1	1,3-Dichlorobenzene	1.1		U
95-50-1	1,2-Dichlorobenzene	1.1		U
106-46-7	1,4-Dichlorobenzene	1.1		U
74-95-3	Dibromomethane	1.1		U
630-20-6	1,1,1,2-Tetrachloroethane	1.1		U
96-18-4	1,2,3-Trichloropropane	1.1		U
544-10-5	1-Chlorohexane	1.1		U
108-86-1	Bromobenzene	1.1		U
100-44-7	Benzyl Chloride	1.1		U
95-49-8	4-Chlorotoluene	1.1		U

MATRIX

ANALYTICAL DATA SUMMARY

Report Date: 05/17/99

Account: Ecosystems Strategies
Address: 60 Worrall Ave.
Poughkeepsie, NY 12603
914-452-1658

Project Manager: Zywia Wojnar
Project Name: LM97145.40 (05/03/99)
Project No.:

Sample Information:

Laboratory ID	Client/Field ID	Laboratory ID	Client/Field ID
91231482-001	LM97145.40	91231482-002	QC-Report - Soil

Reviewed by

Glen Breland
Laboratory Director

Lab Certifications

EPA ID: No. MA059
Massachusetts: No. M-MA059
Maine: Reciprocity
Rhode Island: No. 87
South Carolina: No. 88011
Florida(DEP): QA Plan No. 900437G
Florida(HRS): No. E87290
Connecticut: No. PH0515
New York: ELAP No. 11116
New Hampshire: No. 2041

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1 (800) 362-8749

FINAL REPORT

Client Information

Account: Ecosystems Strategies
Address: 60 Worrall Ave.
Poughkeepsie, NY 12603

Project Name: LM97145.40 (05/03/99)
Project Number:
Project Manager: Zywia Wojnar
Sampler Name: Zywia Wojnar

Sample Information

Lab ID: 91231482-001
Client ID: LM97145.40
Matrix: Soil

Date Sampled: 09/24/98 10:50
Date Received: 05/03/99 : 0
Date Reported: 05/17/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Bromodichloromethane	ND	ug/kg	100000	8021B	jw	05/14/99
Bromoform	ND	ug/kg	100000	8021B	jw	05/14/99
Bromomethane	ND	ug/kg	100000	8021B	jw	05/14/99
Carbon Tetrachloride	ND	ug/kg	100000	8021B	jw	05/14/99
Chlorobenzene	ND	ug/kg	100000	8021B	jw	05/14/99
Chloroethane	ND	ug/kg	100000	8021B	jw	05/14/99
Chloroform	ND	ug/kg	100000	8021B	jw	05/14/99
Chloromethane	ND	ug/kg	100000	8021B	jw	05/14/99
Dibromochloromethane	ND	ug/kg	100000	8021B	jw	05/14/99
1,2-Dichlorobenzene	ND	ug/kg	100000	8021B	jw	05/14/99
1,3-Dichlorobenzene	ND	ug/kg	100000	8021B	jw	05/14/99
1,4-Dichlorobenzene	ND	ug/kg	100000	8021B	jw	05/14/99
1,1-Dichloroethane	ND	ug/kg	100000	8021B	jw	05/14/99
1,2-Dichloroethane	ND	ug/kg	100000	8021B	jw	05/14/99
1,1-Dichloroethene	ND	ug/kg	100000	8021B	jw	05/14/99
cis-1,2-Dichloroethene	ND	ug/kg	100000	8021B	jw	05/14/99
trans-1,2-Dichloroethene	ND	ug/kg	100000	8021B	jw	05/14/99
1,2-Dichloropropane	ND	ug/kg	100000	8021B	jw	05/14/99
cis-1,3-Dichloropropene	ND	ug/kg	100000	8021B	jw	05/14/99
trans-1,3-Dichloropropene	ND	ug/kg	100000	8021B	jw	05/14/99
Methylene Chloride	ND	ug/kg	100000	8021B	jw	05/14/99
1,1,2,2-Tetrachloroethane	ND	ug/kg	100000	8021B	jw	05/14/99
Tetrachloroethene	1,600,000	ug/kg	100000	8021B	jw	05/14/99
1,1,1-Trichloroethane	ND	ug/kg	100000	8021B	jw	05/14/99
1,1,2-Trichloroethane	ND	ug/kg	100000	8021B	jw	05/14/99
Trichloroethene	ND	ug/kg	100000	8021B	jw	05/14/99
Trichlorofluoromethane	ND	ug/kg	100000	8021B	jw	05/14/99
Vinyl Chloride	ND	ug/kg	100000	8021B	jw	05/14/99

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1 (800) 362-8749

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	LM97145.40 (05/03/99)
Address:	60 Worrall Ave.	Project Number:	
	Poughkeepsie, NY 12603	Project Manager:	Zywia Wojnar
		Sampler Name:	Zywia Wojnar

Sample Information

Lab ID:	91231482-001	Date Sampled:	09/24/98 10:50
Client ID:	LM97145.40	Date Received:	05/03/99 : 0
Matrix:	Soil	Date Reported:	05/17/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
(Comments cont.) The detection limit reported is based on a X20000 dilution of the sample.						
SURROGATE STUDIES - VOLATILES						
4-Bromochlorobenzene	100	Percent			jw	05/14/99
1,4-Dichlorobutane	95	Percent			jw	05/14/99
MISCELLANEOUS TESTING						
Percent Moisture	14.3	Percent			os	05/05/99

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748-2295
1 (800) 362-8749

FINAL REPORT

Client Information

Account:	Ecosystems Strategies	Project Name:	LM97145.40 (05/03/99)
Address:	60 Worrall Ave.	Project Number:	
	Poughkeepsie, NY 12603	Project Manager:	Zywia Wojnar
		Sampler Name:	

Sample Information

Lab ID:	91231482-002	Date Sampled:	/ / :
Client ID:	QC-Report - Soil	Date Received:	/ / : 0
Matrix:	Soil	Date Reported:	05/17/99

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
METHOD BLANKS						
Method Blank - Volatile	ND	ug/l		8021B		
MATRIX SPIKE STUDIES - VOLATILES						
Sample ID:	1482-001					
Benzene	89	Percent				
Chlorobenzene	107	Percent				
1,1-Dichloroethene	93	Percent				
Toluene	95	Percent				
Trichloroethene	100	Percent				

METHOD SUMMARIES

NOTE: Analytical results have been corrected and are reported on a dry weight basis. If required, detection limits can also be corrected to dry weight using the percent moisture data included in this report.

Volatile organic analysis is performed using Hewlett Packard 5890 GC's and 5970 and 5972 MSD's when requested. Chromatography incorporates megabore columns. Procedures follow EPA and SW846 guidelines for all analysis.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. Rev. December 1996.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 18th Edition. 1992.
4. EPA Methods For The Determination of Organic Compounds in Drinking Water.

Report Date: 9/10/1999
Client Project ID: LM97145.40

York Project No.: 99090083

Ecosystems Strategies, Inc.
60 Worrall Avenue
Poughkeepsie, NY 12603
Attention: Annette Antonucci

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/03/99. ' The project was identifed as your project "LM97145.40 ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			SP-1		SP-2	
York Sample ID			99090083-01		99090083-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	100	Not detected	100
Bis(2-chloroethoxy)methane			Not detected	100	Not detected	100
Bis(2-chloroisopropyl)ether			Not detected	100	Not detected	100
Bromobenzene			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	100	Not detected	100
Carbon tetrachloride			Not detected	10	Not detected	10
Chloroacetaldehyde			Not detected	100	Not detected	100
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	100	Not detected	100
Chloroform			Not detected	10	Not detected	10
1-Chlorohexane			Not detected	10	Not detected	10
2-Chloroethylvinyl ether			Not detected	10	Not detected	10
Chloromethane			Not detected	100	Not detected	100
Chloromethyl methyl ether			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10

YORK

Client Sample ID			SP-1		SP-2	
York Sample ID			99090083-01		99090083-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
Tetrachloroethylene			4400	10	12000	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Trichloropropane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	100	Not detected	100

Client Sample ID			SP-3		C-2 (6') S-1	
York Sample ID			99090083-03		99090083-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	50	Not detected	50
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	50
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	50
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chloroacetaldehyde			Not detected	50	Not detected	50
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	5.0	Not detected	5.0
1-Chlorohexane			Not detected	5.0	Not detected	5.0
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	50	Not detected	50
Chloromethyl methyl ether			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			SP-3		C-2 (6') S-1	
York Sample ID			99090083-03		99090083-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			1200	5.0	79	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Trichloropropane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	50	Not detected	50

Client Sample ID			C-2 (6') S-2		C-3 (5') S	
York Sample ID			99090083-05		99090083-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8010 List soil	SW846-8010	ug/Kg	---	---	---	---
Benzyl chloride			Not detected	50	Not detected	100
Bis(2-chloroethoxy)methane			Not detected	50	Not detected	100
Bis(2-chloroisopropyl)ether			Not detected	50	Not detected	100
Bromobenzene			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	50	Not detected	100
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chloroacetaldehyde			Not detected	50	Not detected	100
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	50	Not detected	100
Chloroform			Not detected	5.0	Not detected	10
1-Chlorohexane			Not detected	5.0	Not detected	10
2-Chloroethylvinyl ether			Not detected	5.0	Not detected	10
Chloromethane			Not detected	50	Not detected	100
Chloromethyl methyl ether			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10

YORK