N83447.AR.000482
NAS FORT WORTH
5090.3a

DRAFT CLOSURE REPORT FOR UNNAMED STREAM SITE APPENDICES NAS FORT WORTH TX

10/1/1999

FANNING, PHILLIPS AND MOLNAR

507 0 File: 17G
P.W.

NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 507

507 1 File: P.W. 17A-82

507

RISK-BASED ASSESSMENT, MANAGEMENT, AND CLOSURE OF SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN AT NAVAL AIR STATION FORT WORTH, JOINT RESERVE BASE, CARSWELL AIR FORCE BASE, TEXAS

APPENDICES

CLOSURE REPORT for UNNAMED STREAM SITE

CDRL A030

Contract No. F41624-95-D-8003-0023
Project No. DDPF 98-8125

October 1999

APPENDIX A
Chain of Custody Forms

COC 109213

109 Starlite Park
Marietta, OH. 45750

Kemron
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Fanning, Phillips & Molnar	
Project Contact: ANNE LE	Contact Phone #: (210) 524-7187
Turn Around Requirements: AS PER CONTRACT	Location: CARSWELL AFB
Project #: 444-98-23	Project Name: CARSWELL AFB/ NAS JRB
Sampler (print): Gilbert Gabaldon	Signature:

Program: ☐ NPDES ☐ AFCEE ☐ RCRA ☐ USACE ☐ Other

Mail Report To:

ERPIMS REQUIRED FIELDS

Sample I.D. No	Location I.D.	SBD	SED	Date	Time	Comp*	Grab	NUMBER of CONTAINERS	SW6020 ARSENIC	SW 6010A CADMIUM	SW 8270B SVOCS	SW 6010A BARIUM	SW6010 LEAD	SELF-EXPLANATORY	SELF-EXPLANATORY	SELF-EXPLANATORY	Comments	BACODE	COOLER ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
S13SMW0704AC/SD13-MW07		2	4	4/1/99	1415	X		2	X	X							ANALYZE	FRI	A	NA	010499	NA
S13SUN0104AD / UND1		2	4	4/1/99	1355	X		2	X	X	X	X						SDI	A			
S13SUN0404AA / UND4		2	4	4/1/99	1443	X		2	X		X	X						NI	A	NA	010499	NA
S13SMW0704AA/SD13-MW07		2	4	4/1/99	1415	X		2	X	X								NI	A	NA	010499	NA
S13SSB0204AA /SD13-SB02		2	4	4/1/99	1325	X		2	X	X								NI	A	NA	010499	NA
S13SFU0108AA / FUSD1		6	8	4/1/99	0930	X		2	X	X	X	X						NI	A	NA	010499	NA
S13SMW0204AA / OWSS02		2	4	4/1/99	1310	X		2	X									NI	A	NA	010499	NA
AOSSOS10ABE / 0739055A		0	2	4/1/99	0730	X		2			X		X					NI	A	NA	010499	NA
S13SFU0208AA / FUSD2		6	8	4/1/99	1015	X		2	X	X	X	X						NI	A	NA	010499	NA
S13SFU0108AD / FUSD1		6	8	4/1/99	0930	X		2	X	X	X	X						SDI	A			
S13SUN0104AS / UND1		2	4	4/1/99	1355	X		2	X		X	X						MSI	A			
S13SSB0304AD/SD13-SB03		2	4	4/1/99	1145	X		2		X								SDI	A			
S13SSB0304AS/SD13-SB03		2	4	4/1/99	1145	X		2		X								MSI	A			
S13SFU0108AS / FUSD1		6	8	4/1/99	0930	X		2	X	X	X	X						SDI	A			
S13SFU0208AC / FUSD2		6	8	4/1/99	1015	X		2	X	X	X	X						FRI	A	NA	010499	NA
S13SWP0204ABN/ WPD2		0	2	4/1/99	1103	X		2	X			X						NI	A	NA	010499	NA
S13SWP0204AC / WPD2		2	4	4/1/99	1045	X		2	X			X						FRI	A	NA	010499	NA
S13SWP0202ABN/WPD2		0	2	4/1/99	1058	X		2	X			X						NI	A	NA	010499	NA
S13SDW0104AA/OWSS01		2	4	4/1/99	1115	X		2	X									NI	A	NA	010499	NA
S13SDS15ABE/0739055A		0	2	4/1/99	0733	X		2			X		X					NI	A	NA	010499	NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	4/1/99	1700					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:
				4/2/99	1000	6.0	1

* Homogenize all composite samples prior to analysis

COC No 19021

109 Starlite Park
Marietta, OH. 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Fanning, Phillips, & Molnar
Project Contact: ANNE LE
Contact Phone #: (210) 524-7737
Turn Around Requirements: AS PER CONTRACT
Location: CARSWELL AFB
Project #: 444-93-23
Project Name: CARSWELL AFB / NAS JRB
Sampler (print): Gilbert Gabaldon
Signature:

Program: ☐ NPDES ☑ AFCEE ☐ RCRA ☐ USACE ☐ Other

Mail Report To: JOE CAMPANELLO
909 MARCONI BLVE
RONKONKOMA, NY
11779

Sample I.D. No	Location I.D.	SBD	SED	Date	Time	Comp*	Grab	NUMBER of CONTAINERS	SW 6020 ARSENIC	SW 6010A BERYLLIUM	SW 8270B SVOCS	SW 6010A CADMIUM	SHLP TCLP SVOCs (8270B) 4/16/99	TCLP HG (7470A) 4/16/99
S13SUN010504AA	UN01	2	4	4/1/99	0905	X		2	X	X	X			
S13SMW060404AA	SDB-MW06	2	4	4/1/99	1340	X		2	X			X		
S13SWP020404AA	WP02	2	4	4/1/99	1045	X		2	X	X				
S13SB0304AA	SDB-SB03	2	4	4/1/99	1145	X		2	X			X		
S13SUN010404AA	UN01	2	4	4/1/99	1385	X		2	X	X	X			
A0SS0715 ABE	OT390TSA	0	2	4/1/99	0725	X		2	X		X		✓	✓
S13SUN050204AA	UN05	0	2	4/1/99	0900	X		2	X	X	X			

Comments: ANALYZE

ERPIMS REQUIRED FIELDS*

BACODE	COOLER ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA

CN 04-01-99

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	4-1-99						
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:
				4/2/99	1000	4.0	QC Sealed

* Homogenize all composite samples prior to analysis

COC № 100081

109 Starlite Park
Marietta, OH. 45750

Hold

KOMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Fanning, Phillips & Molnar

Project Contact: Anne Le
Contact Phone #: (210) 524-7737

Turn Around Requirements: As PER CONTRACT
Location: Carswell AFB

Project #: ~~23~~ CN 444-98-23
Project Name: Carswell AFB / NAS JRB

Sampler (print): Gilbert Gabaldon
Signature: [signature]

Program: ☐ NPDES ☒ AFCEE ☐ RCRA ☐ USACE ☐ Other

Mail Report To: Joe Camanzo
909 Marconi Ave
Ronkonkoma, NY
11779

ERPIMS REQUIRED FIELDS

Sample I.D. No / Location I.D.	SBD	SED	Date	Time	Comp*	Grab	NUMBER of CONTAINERS	SW 6020 ARSENIC	SW 6010A BARIUM	SW 8270B SVOCS	SW 6010A CADMIUM	Comments	SACODE	COOLER ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
S13SUN0106AC / UN01	4	6	4/1/99	1358	X		2	X	X	X		Hold	FR1	A	NA	010499	NA
~~S13SMW0606AC/~~ CN																	
S13SMW0606AC/SD13-MW06	4	6	4/1/99	1345	X		2	X			X		FR1	A	NA	010499	NA
S13SWP0206AA / WP02	4	6	4/1/99	1050	X		2	X	X				N1	A	NA	010499	NA
S13SWP0208AA / WP02	6	8	4/1/99	1055	X		2	X	X				N1	A	NA	010499	NA
S13SMW0606AA / SD13-MW06	4	6	4/1/99	1345	X		2	X			X		N1	A	NA	010499	NA
S13SOW0106AA / OWSS01	4	6	4/1/99	1120	X		2	X					N1	A	NA	010499	NA
S13SB0206AA / SD13-SB02	4	6	4/1/99	1327	X		2	X			X		N1	A	NA	010499	NA
S13SWP0206AD / WP02	4	6	4/1/99	1050	X		2	X	X				~~SDN1~~	~~A~~	~~NA~~	~~010499~~	~~NA~~ CN
S13SMW0708AA / SD13-MW07	6	8	4/1/99	1425	X		2	X			X		N1	A	NA	010499	NA
S13SOW0108AA / OWSS01	6	8	4/1/99	1123	X		2	X					N1	A	NA	010499	NA
S13SWP0206AS / WP02	4	6	4/1/99	1050	X		2	X	X				MS1	~~A~~	~~NA~~	~~010499~~	~~NA~~ CN
S13SUN0408AA / UN04	6	8	4/1/99	1452	X		2	X	X	X			N1	A	NA	010499	NA
S13SUN0108AA / UN01	6	8	4/1/99	1403	X		2	X	X	X			N1	A	NA	010499	NA
S13SUN0106AA / UN01	4	6	4/1/99	1358	X		2	X	X	X			N1	A	NA	010499	NA
S13SMW0706AA / SD13-MW07	4	6	4/1/99	1423	X		2	X		X			N1	A	NA	010499	NA
S13SMW0608AA / SD13-MW06	6	8	4/1/99	1349	X		2	X		X			N1	A	NA	010499	NA
S13SUN0406AA / UN04	4	6	4/1/99	1448	X		2	X	X	X			N1	A	NA	010499	NA
~~S13SUN~~ CN																	
S13SSB0208AA / SD13-SB02	6	8	4/1/99	1330	X		2	X			X		N1	A	NA	010499	NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	4-1-99	1700	[signature]				C of C Dealed SXS intact [initials]

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:
			Brenda Gregory	4/2/99	1000	5.0	All samples are to be extracted and held.

* Homogenize all composite samples prior to analysis

507 5

COC № 100247

109 Starlite Park
Marietta, OH. 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

507 6

Company Name: Fanning Phillips and Molnar

Project Contact: Anne Le.

Contact Phone #: 210 524-7737

Turn Around Requirements: Normal 2 week prelim.

Location: Carswell NAS JRB

Project #: 444-98-23

Project Name: Carswell Bral

Sampler (print): Randy Mattzela, Colin Neely

Signature: [signature], Colin Neely

Program: ☐ NPDES ☒ AFCEE ☐ RCRA ☐ USACE ☐ Other

Mail Report To:

ERPIMS REQUIRED FIELDS

Sample I.D. No	Location I.D.	SBD	SED	Date	Time	Comp*	Grab	NUMBER of CONTAINERS	8260	Metals	8270	Comments	BACODE	COOLER ID	ABLOT	EBLOT	TBLOT
S13SUN0100BF	VN 01	—	—	6/18/99	08:05		X	2	X				AB1	A	180699	180699	180699
Trib Blank 1	—	—	—	6/18/99			X	2	X				TB1	A	↓	↓	↓
S13SUN0100BE	VN 01	—	—	6/18/99	08:35		X	5	X	X	X		EB1	A	↓	↓	↓
S13SFU0300BA	FU03	—	—	6/18/99	09:20	X		3	X	X	X		NI	A	↓	↓	↓
S13SUN0502BB	ELN05	0	2	6/18/99	10:00		X	3	X	~~X~~	~~X~~	1 Jar only 8260	NI	A	↓	↓	↓
S13SFU0410BA	FU04	9	10	6/18/99	1330		X	3	X	X	X		NI	A	↓	↓	↓
S13SFU0510BA	FU05	5	6	6/18/99	1420		X	3	X	X	X		NI	A	↓	↓	↓
S13SFU0606BA	FU06	9	10	6/18/99	1520		X	3	X	X	X		NI	A	↓	↓	↓
~~S13SFU0606BA~~	~~FU06~~	~~5~~	~~6~~	~~6/18/99~~	~~1446~~		~~X~~	~~3~~	~~X~~	~~X~~	~~X~~	added per client 6/22/99					
S13SFU0706BB	FU07	5	6	6-18-99	1542		X	3	X	X	X		NI	A	↓	↓	↓
S13SFU0810BA	FU08	9	10	6-18-99	16:10		X	3	X	X	X		NI	A	↓	↓	↓
S13SFU0910BB	FU09	9	10	6-18-99	17:30		X	3	X	X	X		NI	A	↓	↓	↓
S13SFU1010BB	FU10	9	10	6-18-99	17:40		X	3	X	X	X		NI	A	↓	↓	↓
S13SFU1110BB	FU11	9	10	6-18-99	18:40		X	3	X	X	X		NI	A	↓	↓	↓
~~S13SUN0102BA~~	~~VN01~~	~~2~~	~~2~~	~~6-18-99~~			~~X~~	~~3~~	~~X~~			~~1 Jar only 8260~~	~~NI~~	~~A~~	~~↓~~	~~↓~~	~~↓~~
~~S13SUN0302BA~~	~~VN03~~	~~2~~	~~2~~	~~6-18-99~~			~~X~~	~~2~~	~~X~~		~~X~~	~~2 Jar 8260, 8270~~	~~NI~~	~~A~~	~~↓~~	~~↓~~	~~↓~~
S13SFU1110BC	FU11	9	10	6-18-99	18:40		X	3	X	X	X		FR1	A			
S13SFU1110BS	FU11	9	10	6/18/99	18:40		X	3	X	X	X		MS1	A			
S13SFU1110BD	FU11	9	10	6-18-99	18:40		X	3	X	X	X		MD1	A			
~~S13SUN0303BC~~	~~VN03~~	~~2~~	~~3~~	~~6-18-99~~			~~X~~	~~2~~	~~X~~		~~X~~	~~2 Jar 8260, 8270~~	~~FR1~~	~~A~~	~~↓~~	~~↓~~	~~↓~~

Not there

Not there

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	6/18/99	19:45	Fed EX				

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:
			Brenda Gregory	6/21/99	0830	5.0	C of C Sealed SXS intact

* Ho[illegible]ize all composite samples prior to analysis

SXS rec'd 6/19/99 + stored in locked cooler

Page

COC No. [illegible]00248

109 Starlite Park
Marietta, OH. 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Fanning Phillips & Molnar

Project Contact: Anne Le
Contact Phone #: 210-524-7737

Turn Around Requirements: Normal 2 week prelim.
Location: Carswell NAS JRB

Project #: 444-98-23
Project Name: Carswell Base French Under

Sampler (print): Randall Mattzela
Signature: [signature]

Program: ☐ NPDES ☒ AFCEE ☐ RCRA ☐ USACE ☐ Other

Mail Report To:

ERPIMS REQUIRED FIELDS

Sample I.D. No / Location I.D.	SBD	SED	Date	Time	Comp*	Grab	NUMBER of CONTAINERS	8260	8270	Comments	SACODE	COOLER ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
S13SUN0303BA / UN03	2	3	6/19/99	07:40		X	2	X	X	Soil	N1	A	190699	190699	190699
S13SUN0303BC / UN03	2	3	↓	07:40		X	2	X	X	Soil	FR1	A	↓	↓	↓
S13SUN0102BA / UN01	~~2~~ 1	~~3~~ 2	↓	08:13		X	1	X		Soil	N1	A	↓	↓	↓
S13SUN0100BE / —	—	—	↓	08:03		X	2	X		Water	AB1	A	190699	—	—
Trip Blank & BE#1 / —	—	—	↓	—		X	2	X		Water	TB1	A	—	—	190699
S13SUN0100BE / UN01	—	—	↓	12:15		X	4	X	X	Water	EB1	A	—	190699	—

Airbill # 803533311377

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	6/19/99	13:00					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks
			Brenda Gregory	6/21/99	1000	6.0	C of C Dealed Sxs intact [illegible]

* Homogenize all composite samples prior to analysis

Page ____ of ____

507 7

APPENDIX B
Laboratory Analytical Data

Metals Data

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA Lab Sample ID: L9904064-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	3.0	1	F
Barium, Total	.025	1.0	52	1	M

Comments:

507 11

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MS Lab Sample ID: L9904064-09 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	29.3	1	
Barium, Total	.025	1.0	156.	1	M

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MSD Lab Sample ID: L9904064-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	28.1	1	
Barium, Total	.025	1.0	115.	1	M

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0404AA Lab Sample ID: L9904064-06 Matrix: Soil

% Solids: 80 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.9	1	F
Barium, Total	.025	1.0	82	1	M

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN010504AA Lab Sample ID: L9904064-23 Matrix: Soil

% Solids: 84 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	4.2	1	F
Barium, Total	.025	1.0	60	1	M

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG58135

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502AA/SPLP EXTRACT Lab Sample ID: L9905346-12 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-99

Date Received: 02-APR-99 Date Extracted: 23-MAY-99 Date Analyzed: 24-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.00876	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG55734

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 06-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	.0029	1	U
Barium, Total	.00085	0.005	.00085	1	U
Cadmium, Total	.00011	0.001	0.00033	1	F
Lead, Total	.0018	0.005	.0018	1	U

Comments:

507 .17

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502AA Lab Sample ID: L9904064-26 Matrix: Soil

% Solids: 85 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.1	1	F
Barium, Total	.025	1.0	74	1	M

Comments:

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INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0204AA Lab Sample ID: L9904064-18 Matrix: Soil

% Solids: 80 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.3	1	F
Barium, Total	.025	1.0	100	1	M

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0204AA/DUP Lab Sample ID: L9904064-19 Matrix: Soil

% Solids: 80 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	12	1	
Barium, Total	.025	1.0	97	1	M

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0202ABN Lab Sample ID: L9904064-20 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.8	1	F
Barium, Total	.025	1.0	100	1	M

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0204ABN Lab Sample ID: L9904064-17 Matrix: Soil

% Solids: 83 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.0	1	F
Barium, Total	.025	1.0	73	1	M

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG58135

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0204AA/SPLP EXTRACT Lab Sample ID: L9905346-06 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-99

Date Received: 02-APR-99 Date Extracted: 23-MAY-99 Date Analyzed: 24-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.00826	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG58135

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0202ABN/SPLP EXTRAC Lab Sample ID: L9905346-08 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-99

Date Received: 02-APR-99 Date Extracted: 23-MAY-99 Date Analyzed: 24-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.0111	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG58135

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SWP0204ABN/SPLP EXTRAC Lab Sample ID: L9905346-04 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-99

Date Received: 02-APR-99 Date Extracted: 23-MAY-99 Date Analyzed: 24-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.00869	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SOW0104AA Lab Sample ID: L9904064-21 Matrix: Soil

% Solids: 80 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	12	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG57799

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SOWO104AA/SPLP EXTRACT Lab Sample ID: L9905196-02 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 18-MAY-99

Date Received: 11-APR-99 Date Extracted: 17-MAY-99 Date Analyzed: 18-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	.0029	1	U

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SOW0204AA Lab Sample ID: L9904064-11 Matrix: Soil

% Solids: 80 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	6.0	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG58135

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SOW0204AA/SPLP EXTRACT Lab Sample ID: L9905346-02 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-99

Date Received: 02-APR-99 Date Extracted: 23-MAY-99 Date Analyzed: 24-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.00528	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0604AA Lab Sample ID: L9904064-24 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	6.0	1	F
Cadmium, Total	.031	0.50	0.23	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG58135

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0604AA/SPLP EXTRACT Lab Sample ID: L9905346-10 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-99

Date Received: 02-APR-99 Date Extracted: 23-MAY-99 Date Analyzed: 24-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.00664	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG57946

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0608AA Lab Sample ID: L9905383-02 Matrix: Soil

% Solids: 88 Initial Calibration ID: IRIS-ICP 20-MAY-99

Date Received: 02-APR-99 Date Extracted: 19-MAY-99 Date Analyzed: 20-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	10.2	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG59922

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0608AA/SPLP EXTRACT Lab Sample ID: L9906401-04 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 23-JUN-99

Date Received: 02-APR-99 Date Extracted: 22-JUN-99 Date Analyzed: 23-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.0083	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0704AA Lab Sample ID: L9904064-01 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.0	1	F
Cadmium, Total	.031	0.50	0.17	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0704AA/DUP Lab Sample ID: L9904064-02 Matrix: Soil

% Solids: 80 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	4.8	1	F
Cadmium, Total	.031	0.50	0.16	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG57946

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0708AA Lab Sample ID: L9905383-01 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP 20-MAY-99

Date Received: 02-APR-99 Date Extracted: 19-MAY-99 Date Analyzed: 20-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	5.48	1	
Cadmium, Total	.031	0.50	0.228	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG59922

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SMW0708AA/SPLP EXTRACT Lab Sample ID: L9906401-02 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 23-JUN-99

Date Received: 02-APR-99 Date Extracted: 22-JUN-99 Date Analyzed: 23-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.013	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0204AA Lab Sample ID: L9904064-07 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	6.2	1	
Cadmium, Total	.031	0.50	0.26	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG57270

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0204AA/SPLP EXTRACT Lab Sample ID: L9905021-02 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 07-MAY-99

Date Received: 02-APR-99 Date Extracted: 06-MAY-99 Date Analyzed: 07-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.00434	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0304AA Lab Sample ID: L9904064-14 Matrix: Soil

% Solids: 77 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	9.8	1	
Cadmium, Total	.031	0.50	0.35	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG57270

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0304AA/SPLP EXTRACT Lab Sample ID: L9905021-04 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 07-MAY-99

Date Received: 02-APR-99 Date Extracted: 06-MAY-99 Date Analyzed: 07-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	0.0109	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0304AA/MS Lab Sample ID: L9904064-15 Matrix: Soil

% Solids: 77 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	32.4	1	
Cadmium, Total	.031	0.50	3.38	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0304AA/MSD Lab Sample ID: L9904064-16 Matrix: Soil

% Solids: 77 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	31.1	1	
Cadmium, Total	.031	0.50	3.76	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG57946

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SSB0306AA Lab Sample ID: L9905383-03 Matrix: Soil

% Solids: 78 Initial Calibration ID: IRIS-ICP 20-MAY-99

Date Received: 02-APR-99 Date Extracted: 19-MAY-99 Date Analyzed: 20-MAY-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Cadmium, Total	.031	0.50	0.277	1	F

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60143

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0102BA Lab Sample ID: L9906512-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	U
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	U
1,2,4-Trimethylbenzene	.00013	0.007	0.000161	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60143

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0102BA Lab Sample ID: L9906512-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	U
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60143

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0102BA Lab Sample ID: L9906512-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	U
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000632	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60143

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0102BA Lab Sample ID: L9906512-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	110	52 - 149	
4-Bromofluorobenzene	91.0	65 - 135	
Dibromofluoromethane	94.2	65 - 135	
Toluene-d8	91.1	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906512-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	U
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	U
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	R
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906512-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	U
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	0.320	1	F
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906512-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	U
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	U
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	U
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906512-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
p-Isopropyltoluene	.22	1.2	.22	1	U
sec-Butylbenzene	.25	1.3	.25	1	U
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	116	62 - 139	
4-Bromofluorobenzene	110	75 - 125	
Dibromofluoromethane	107	75 - 125	
Toluene-d8	106	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	U
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	U
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	R
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	U
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	0.280	1	F
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	U
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	0.370	1	F
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	0.200	1	F
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	U
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
p-Isopropyltoluene	.22	1.2	.22	1	U
sec-Butylbenzene	.25	1.3	.25	1	U
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	114	62 - 139	
4-Bromofluorobenzene	109	75 - 125	
Dibromofluoromethane	106	75 - 125	
Toluene-d8	106	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	U
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	U
1,2,4-Trimethylbenzene	.00013	0.007	0.000193	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	U
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	U
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.00131	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.000313	1	F
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	99.7	52 - 149	
4-Bromofluorobenzene	92.5	65 - 135	
Dibromofluoromethane	89.6	65 - 135	
Toluene-d8	93.6	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	U
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	U
1,2,4-Trimethylbenzene	.00013	0.007	0.000167	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	U
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	0.000179	1	F
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	U
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.00101	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.00031	1	F
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	99.3	52 - 149	
4-Bromofluorobenzene	92.1	65 - 135	
Dibromofluoromethane	89.1	65 - 135	
Toluene-d8	92.8	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502BB Lab Sample ID: L9906513-05 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000161	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502BB Lab Sample ID: L9906513-05 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502BB Lab Sample ID: L9906513-05 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	0.000667	1	F
Toluene	.00013	0.005	0.00054	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502BB Lab Sample ID: L9906513-05 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	109	52 - 149	
4-Bromofluorobenzene	94.8	65 - 135	
Dibromofluoromethane	95.6	65 - 135	
Toluene-d8	95.1	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	R
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	R
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	R
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	0.300	1	F
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : MG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	R
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	0.240	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	R
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904060-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
sec-Butylbenzene	.25	1.3	.25	1	R
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	108	62 - 139	
4-Bromofluorobenzene	120	75 - 125	
Dibromofluoromethane	96.4	75 - 125	
Toluene-d8	94.4	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

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Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPM89 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	R
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	F
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	R
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	R
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	R
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
sec-Butylbenzene	.25	1.3	.25	1	R
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	114	62 - 139	
4-Bromofluorobenzene	123	75 - 125	
Dibromofluoromethane	99.5	75 - 125	
Toluene-d8	94.5	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK Lab Sample ID: L9906512-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	U
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	U
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	R
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK Lab Sample ID: L9906512-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: _____ Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	U
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	0.310	1	F
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	R

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK Lab Sample ID: L9906512-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	U
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	U
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	0.390	1	F
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	U
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60521

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK Lab Sample ID: L9906512-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 3-JUN-1999

Date Received: 21-JUN-99 Date Extracted: Date Analyzed: 02-JUL-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
p-Isopropyltoluene	.22	1.2	.22	1	U
sec-Butylbenzene	.25	1.3	.25	1	U
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	116	62 - 139	
4-Bromofluorobenzene	110	75 - 125	
Dibromofluoromethane	108	75 - 125	
Toluene-d8	106	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	2	5.0	2	1	U
1,2-Dichlorobenzene	1.7	5.0	1.7	1	U
1,3-Dichlorobenzene	1.8	5.0	1.8	1	U
1,4-Dichlorobenzene	1.7	5.0	1.7	1	U
2,4,5-Trichlorophenol	1.8	25	1.8	1	U
2,4,6-Trichlorophenol	1.7	5.0	1.7	1	U
2,4-Dichlorophenol	1.9	5.0	1.9	1	R
2,4-Dimethylphenol	2	5.0	2	1	R
2,4-Dinitrophenol	9	25	9	1	R
2,4-Dinitrotoluene	1.3	5.0	1.3	1	U
2,6-Dinitrotoluene	1.5	5.0	1.5	1	U
2-Chloronaphthalene	1.8	5.0	1.8	1	U
2-Chlorophenol	1.5	5.0	1.5	1	U
2-Methylnaphthalene	1.8	5.0	1.8	1	R
2-Methylphenol	1.7	5.0	1.7	1	U
2-Nitroaniline	1.4	25	1.4	1	U
2-Nitrophenol	1.5	5.0	1.5	1	U
3,3'-Dichlorobenzidine	4.3	10	4.3	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	1.6	25	1.6	1	U
4,6-Dinitro-2-methylphenol	1.1	25	1.1	1	U
4-Bromophenyl-phenylether	1.4	5.0	1.4	1	U
4-Chloro-3-methylphenol	1.7	10	1.7	1	R
4-Chloroaniline	1.9	10	1.9	1	R
4-Chlorophenyl-phenyl ether	1.7	5.0	1.7	1	U
4-Methylphenol	1.5	5.0	1.5	1	U
4-Nitroaniline	1.8	25	1.8	1	R
Acenaphthene	1.5	5.0	1.5	1	U
Acenaphthylene	1.6	5.0	1.6	1	U
Anthracene	1.2	5.0	1.2	1	U
Benzo(a)anthracene	1.7	5.0	1.7	1	U
Benzo(a)pyrene	1.8	5.0	1.8	1	U
Benzo(b)fluoranthene	1.7	5.0	1.7	1	U
Benzo(g,h,i)Perylene	3.2	5.0	3.2	1	U
Benzoic acid	4.7	25	4.7	1	R
Benzyl alcohol	1.5	10	1.5	1	U
Bis(2-Chloroethoxy)Methane	1.5	5.0	1.5	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	1.4	5.0	1.4	1	U
Butylbenzylphthalate	2.1	5.0	2.1	1	U
Chrysene	2.5	5.0	2.5	1	U
Di-N-Butylphthalate	1.8	5.0	1.8	1	U
Di-n-octylphthalate	1.9	5.0	1.9	1	U
Dibenzo(a,h)Anthracene	3.5	5.0	3.5	1	U
Dibenzofuran	1.7	5.0	1.7	1	U
Diethylphthalate	1.4	5.0	1.4	1	U
Dimethylphthalate	1.7	5.0	1.7	1	U
Fluoranthene	1.7	5.0	1.7	1	U
Fluorene	1.7	5.0	1.7	1	U
Hexachlorobenzene	1.7	5.0	1.7	1	U
Hexachlorobutadiene	2.4	5.0	2.4	1	R
Hexachlorocyclopentadiene	1.2	5.0	1.2	1	U
Hexachloroethane	2	5.0	2	1	U
Indeno(1,2,3-cd)pyrene	2.2	5.0	2.2	1	U
Isophorone	1.7	5.0	1.7	1	R
N-Nitroso-di-n-propylamine	1.5	5.0	1.5	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	1.4	5.0	1.4	1	U
Naphthalene	2.8	5.0	2.8	1	R
Nitrobenzene	1.5	5.0	1.5	1	U
Pentachlorophenol	1.7	25	1.7	1	U
Phenanthrene	1.3	5.0	1.3	1	U
Phenol	2.2	5.0	2.2	1	R
Pyrene	1.6	5.0	1.6	1	U
bis(2-Chloroisopropyl)ether	1.5	5.0	1.5	1	U
bis(2-Ethylhexyl)phthalate	2.1	5.0	2.1	1	U
p-Nitrophenol	1.6	25	1.6	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	80.2	25 - 134	
2-Fluorobiphenyl	52.9	43 - 125	
2-Fluorophenol	34.9	25 - 125	
Nitrobenzene-d5	54.8	32 - 125	
Phenol-d5	23.4	25 - 125	*
p-Terphenyl-d14	125	42 - 126	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	U
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	U
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	U
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	U
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	U
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	U
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
p-Isopropyltoluene	.22	1.2	.22	1	U
sec-Butylbenzene	.25	1.3	.25	1	U
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	62 - 139	
4-Bromofluorobenzene	113	75 - 125	
Dibromofluoromethane	101	75 - 125	
Toluene-d8	103	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906513-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	U
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	U
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906513-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: _____ Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	U
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	U
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906513-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	U
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	0.330	1	F
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	U
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BF Lab Sample ID: L9906513-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
p-Isopropyltoluene	.22	1.2	.22	1	U
sec-Butylbenzene	.25	1.3	.25	1	U
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	62 - 139	
4-Bromofluorobenzene	111	75 - 125	
Dibromofluoromethane	103	75 - 125	
Toluene-d8	102	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

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Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA Lab Sample ID: L9904064-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	M
1,3-Dichlorobenzene	.032	0.70	.032	1	M
1,4-Dichlorobenzene	.034	0.70	.034	1	M
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	U
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA Lab Sample ID: L9904064-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	R
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	U
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	0.212	1	F
Benzo(a)pyrene	.026	0.70	0.150	1	R
Benzo(b)fluoranthene	.028	0.70	0.196	1	F
Benzo(g,h,i)Perylene	.037	0.70	0.160	1	F
Benzo(k)fluoranthene	.034	0.70	0.144	1	F
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

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RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA Lab Sample ID: L9904064-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	0.219	1	F
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	M
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.026	0.70	0.346	1	F
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	M
Hexachloroethane	.033	0.70	.033	1	M
Indeno(1,2,3-cd)pyrene	.036	0.70	0.149	1	F
Isophorone	.043	0.70	.043	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SVN0104AA Lab Sample ID: L9904064-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	0.105	1	F
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	0.286	1	F
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	76.4	25 - 144	
2-Fluorobiphenyl	71.7	34 - 135	
2-Fluorophenol	53.0	25 - 135	
Nitrobenzene-d5	53.5	25 - 135	
Phenol-d5	61.7	25 - 135	
p-Terphenyl-d14	89.7	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	2	5.0	2	1	U
1,2-Dichlorobenzene	1.7	5.0	1.7	1	U
1,3-Dichlorobenzene	1.8	5.0	1.8	1	U
1,4-Dichlorobenzene	1.7	5.0	1.7	1	U
2,4,5-Trichlorophenol	1.8	25	1.8	1	U
2,4,6-Trichlorophenol	1.7	5.0	1.7	1	U
2,4-Dichlorophenol	1.9	5.0	1.9	1	R
2,4-Dimethylphenol	2	5.0	2	1	R
2,4-Dinitrophenol	9	25	9	1	R
2,4-Dinitrotoluene	1.3	5.0	1.3	1	U
2,6-Dinitrotoluene	1.5	5.0	1.5	1	U
2-Chloronaphthalene	1.8	5.0	1.8	1	U
2-Chlorophenol	1.5	5.0	1.5	1	U
2-Methylnaphthalene	1.8	5.0	1.8	1	R
2-Methylphenol	1.7	5.0	1.7	1	U
2-Nitroaniline	1.4	25	1.4	1	U
2-Nitrophenol	1.5	5.0	1.5	1	U
3,3'-Dichlorobenzidine	4.3	10	4.3	1	U

Comments:

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RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	1.6	25	1.6	1	U
4,6-Dinitro-2-methylphenol	1.1	25	1.1	1	U
4-Bromophenyl-phenylether	1.4	5.0	1.4	1	U
4-Chloro-3-methylphenol	1.7	10	1.7	1	R
4-Chloroaniline	1.9	10	1.9	1	R
4-Chlorophenyl-phenyl ether	1.7	5.0	1.7	1	U
4-Methylphenol	1.5	5.0	1.5	1	U
4-Nitroaniline	1.8	25	1.8	1	R
Acenaphthene	1.5	5.0	1.5	1	U
Acenaphthylene	1.6	5.0	1.6	1	U
Anthracene	1.2	5.0	1.2	1	U
Benzo(a)anthracene	1.7	5.0	1.7	1	U
Benzo(a)pyrene	1.8	5.0	1.8	1	U
Benzo(b)fluoranthene	1.7	5.0	1.7	1	U
Benzo(g,h,i)Perylene	3.2	5.0	3.2	1	U
Benzoic acid	4.7	25	4.7	1	R
Benzyl alcohol	1.5	10	1.5	1	U
Bis(2-Chloroethoxy)Methane	1.5	5.0	1.5	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	1.4	5.0	1.4	1	U
Butylbenzylphthalate	2.1	5.0	2.1	1	U
Chrysene	2.5	5.0	2.5	1	U
Di-N-Butylphthalate	1.8	5.0	1.8	1	U
Di-n-octylphthalate	1.9	5.0	1.9	1	U
Dibenzo(a,h)Anthracene	3.5	5.0	3.5	1	U
Dibenzofuran	1.7	5.0	1.7	1	U
Diethylphthalate	1.4	5.0	1.4	1	U
Dimethylphthalate	1.7	5.0	1.7	1	U
Fluoranthene	1.7	5.0	1.7	1	U
Fluorene	1.7	5.0	1.7	1	U
Hexachlorobenzene .	1.7	5.0	1.7	1	U
Hexachlorobutadiene	2.4	5.0	2.4	1	R
Hexachlorocyclopentadiene	1.2	5.0	1.2	1	U
Hexachloroethane	2	5.0	2	1	U
Indeno(1,2,3-cd)pyrene	2.2	5.0	2.2	1	U
Isophorone	1.7	5.0	1.7	1	R
N-Nitroso-di-n-propylamine	1.5	5.0	1.5	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3510C AAB # : WG60037

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906512-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	1.4	5.0	1.4	1	U
Naphthalene	2.8	5.0	2.8	1	R
Nitrobenzene	1.5	5.0	1.5	1	U
Pentachlorophenol	1.7	25	1.7	1	U
Phenanthrene	1.3	5.0	1.3	1	U
Phenol	2.2	5.0	2.2	1	R
Pyrene	1.6	5.0	1.6	1	U
bis(2-Chloroisopropyl)ether	1.5	5.0	1.5	1	U
bis(2-Ethylhexyl)phthalate	2.1	5.0	2.1	1	U
p-Nitrophenol	1.6	25	1.6	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	71.6	25 - 134	
2-Fluorobiphenyl	44.8	43 - 125	
2-Fluorophenol	29.0	25 - 125	
Nitrobenzene-d5	46.5	32 - 125	
Phenol-d5	19.0	25 - 125	*
p-Terphenyl-d14	109	42 - 126	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MS Lab Sample ID: L9904064-09 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	1.01	1	
1,2-Dichlorobenzene	.033	0.70	0.892	1	M
1,3-Dichlorobenzene	.032	0.70	0.835	1	M
1,4-Dichlorobenzene	.034	0.70	0.821	1	M
2,4,5-Trichlorophenol	.047	3.3	1.30	1	
2,4,6-Trichlorophenol	.042	0.30	1.24	1	
2,4-Dichlorophenol	.041	0.30	1.12	1	
2,4-Dimethylphenol	.037	0.30	1.13	1	
2,4-Dinitrophenol	.11	3.3	0.949	1	
2,4-Dinitrotoluene	.042	0.70	1.46	1	
2,6-Dinitrotoluene	.04	0.70	1.39	1	
2-Chloronaphthalene	.04	0.70	1.16	1	
2-Chlorophenol	.034	0.30	0.980	1	
2-Methylnaphthalene	.037	0.70	1.08	1	
2-Methylphenol	.063	0.30	1.09	1	
2-Nitroaniline	.046	3.3	1.40	1	
2-Nitrophenol	.032	0.30	1.10	1	
3,3'-Dichlorobenzidine	.15	1.3	0.354	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MS Lab Sample ID: L9904064-09 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	1.38	1	
4,6-Dinitro-2-methylphenol	.036	3.3	1.61	1	
4-Bromophenyl-phenylether	.038	0.70	1.28	1	
4-Chloro-3-methylphenol	.046	1.3	1.28	1	
4-Chloroaniline	.053	1.3	0.809	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	1.27	1	
4-Methylphenol	.041	0.30	1.08	1	
4-Nitroaniline	.04	3.3	1.62	1	
Acenaphthene	.042	0.70	1.18	1	
Acenaphthylene	.042	0.70	1.23	1	
Anthracene	.035	0.70	1.39	1	
Benzo(a)anthracene	.029	0.70	1.51	1	
Benzo(a)pyrene	.026	0.70	1.51	1	
Benzo(b)fluoranthene	.028	0.70	1.42	1	
Benzo(g,h,i)Perylene	.037	0.70	1.68	1	
Benzo(k)fluoranthene	.034	0.70	1.84	1	
Benzoic acid	.02	1.6	0.346	1	M
Benzyl alcohol	.06	1.3	1.03	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MS Lab Sample ID: L9904064-09 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	1.11	1	
Bis(2-Chloroethyl)ether	.041	0.70	1.02	1	R
Butylbenzylphthalate	.031	0.70	1.66	1	
Chrysene	.041	0.70	1.57	1	
Di-N-Butylphthalate	.031	0.70	1.41	1	
Di-n-octylphthalate	.031	0.70	1.61	1	
Dibenzo(a,h)Anthracene	.039	0.70	1.43	1	
Dibenzofuran	.043	0.70	1.22	1	
Diethylphthalate	.049	0.70	1.44	1	
Dimethylphthalate	.046	0.70	1.34	1	
Fluoranthene	.028	0.70	1.19	1	
Fluorene	.044	0.70	1.28	1	
Hexachlorobenzene	.04	0.70	1.48	1	
Hexachlorobutadiene	.037	0.70	1.04	1	
Hexachlorocyclopentadiene	.087	0.70	1.08	1	M
Hexachloroethane	.033	0.70	0.866	1	M
Indeno(1,2,3-cd)pyrene	.036	0.70	1.63	1	
Isophorone	.043	0.70	1.27	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MS Lab Sample ID: L9904064-09 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	1.07	1	
N-Nitrosodiphenylamine	.048	0.70	1.54	1	
Naphthalene	.036	0.70	1.06	1	
Nitrobenzene	.034	0.70	1.03	1	
Pentachlorophenol	.02	3.3	1.46	1	
Phenanthrene	.043	0.70	1.43	1	
Phenol	.032	0.30	1.06	1	
Pyrene	.03	0.70	1.40	1	
bis(2-Chloroisopropyl)ether	.041	0.70	0.998	1	
bis(2-Ethylhexyl)phthalate	.039	0.70	1.87	1	
p-Nitrophenol	.057	1.6	1.66	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	58.0	25 - 144	
2-Fluorobiphenyl	49.3	34 - 135	
2-Fluorophenol	40.9	25 - 135	
Nitrobenzene-d5	43.5	25 - 135	
Phenol-d5	42.7	25 - 135	
p-Terphenyl-d14	58.0	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MSD Lab Sample ID: L9904064-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	1.27	1	
1,2-Dichlorobenzene	.033	0.70	1.27	1	M
1,3-Dichlorobenzene	.032	0.70	1.22	1	M
1,4-Dichlorobenzene	.034	0.70	1.19	1	M
2,4,5-Trichlorophenol	.047	3.3	1.65	1	
2,4,6-Trichlorophenol	.042	0.30	1.56	1	
2,4-Dichlorophenol	.041	0.30	1.43	1	
2,4-Dimethylphenol	.037	0.30	1.41	1	
2,4-Dinitrophenol	.11	3.3	1.04	1	
2,4-Dinitrotoluene	.042	0.70	1.71	1	
2,6-Dinitrotoluene	.04	0.70	1.60	1	
2-Chloronaphthalene	.04	0.70	1.44	1	
2-Chlorophenol	.034	0.30	1.27	1	
2-Methylnaphthalene	.037	0.70	1.30	1	
2-Methylphenol	.063	0.30	1.38	1	
2-Nitroaniline	.046	3.3	1.63	1	
2-Nitrophenol	.032	0.30	1.27	1	
3,3'-Dichlorobenzidine	.15	1.3	0.639	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MSD Lab Sample ID: L9904064-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	1.61	1	
4,6-Dinitro-2-methylphenol	.036	3.3	1.79	1	
4-Bromophenyl-phenylether	.038	0.70	1.55	1	
4-Chloro-3-methylphenol	.046	1.3	1.59	1	
4-Chloroaniline	.053	1.3	0.611	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	1.51	1	
4-Methylphenol	.041	0.30	1.37	1	
4-Nitroaniline	.04	3.3	1.54	1	
Acenaphthene	.042	0.70	1.41	1	
Acenaphthylene	.042	0.70	1.50	1	
Anthracene	.035	0.70	1.57	1	
Benzo(a)anthracene	.029	0.70	1.80	1	
Benzo(a)pyrene	.026	0.70	1.73	1	
Benzo(b)fluoranthene	.028	0.70	1.64	1	
Benzo(g,h,i)Perylene	.037	0.70	1.74	1	
Benzo(k)fluoranthene	.034	0.70	1.77	1	
Benzoic acid	.02	1.6	0.470	1	M
Benzyl alcohol	.06	1.3	1.29	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

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Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MSD Lab Sample ID: L9904064-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	1.32	1	
Bis(2-Chloroethyl)ether	.041	0.70	1.28	1	R
Butylbenzylphthalate	.031	0.70	1.71	1	
Chrysene	.041	0.70	1.88	1	
Di-N-Butylphthalate	.031	0.70	1.56	1	
Di-n-octylphthalate	.031	0.70	1.61	1	
Dibenzo(a,h)Anthracene	.039	0.70	1.54	1	
Dibenzofuran	.043	0.70	1.49	1	
Diethylphthalate	.049	0.70	1.60	1	
Dimethylphthalate	.046	0.70	1.54	1	
Fluoranthene	.028	0.70	1.53	1	
Fluorene	.044	0.70	1.55	1	
Hexachlorobenzene	.04	0.70	1.77	1	
Hexachlorobutadiene	.037	0.70	1.35	1	
Hexachlorocyclopentadiene	.087	0.70	1.51	1	M
Hexachloroethane	.033	0.70	1.24	1	M
Indeno(1,2,3-cd)pyrene	.036	0.70	1.80	1	
Isophorone	.043	0.70	1.50	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0104AA/MSD Lab Sample ID: L9904064-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 12-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 12-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	1.28	1	
N-Nitrosodiphenylamine	.048	0.70	1.82	1	
Naphthalene	.036	0.70	1.28	1	
Nitrobenzene	.034	0.70	1.33	1	
Pentachlorophenol	.02	3.3	1.68	1	
Phenanthrene	.043	0.70	1.66	1	
Phenol	.032	0.30	1.27	1	
Pyrene	.03	0.70	1.61	1	
bis(2-Chloroisopropyl)ether	.041	0.70	1.26	1	
bis(2-Ethylhexyl)phthalate	.039	0.70	1.80	1	
p-Nitrophenol	.057	1.6	1.78	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	83.6	25 - 144	
2-Fluorobiphenyl	72.8	34 - 135	
2-Fluorophenol	59.2	25 - 135	
Nitrobenzene-d5	63.5	25 - 135	
Phenol-d5	64.0	25 - 135	
p-Terphenyl-d14	78.2	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	U
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	U
Benzyl alcohol	.06	1.3	.06	1	U
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BA Lab Sample ID: L9906512-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	72.1	25 - 144	
2-Fluorobiphenyl	69.8	34 - 135	
2-Fluorophenol	61.0	25 - 135	
Nitrobenzene-d5	65.7	25 - 135	
Phenol-d5	65.7	25 - 135	
p-Terphenyl-d14	107	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

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RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	U
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	U
Benzyl alcohol	.06	1.3	.06	1	U
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U

Comments:

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RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0303BC Lab Sample ID: L9906512-02 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 21-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	59.9	25 - 144	
2-Fluorobiphenyl	62.7	34 - 135	
2-Fluorophenol	57.8	25 - 135	
Nitrobenzene-d5	59.2	25 - 135	
Phenol-d5	61.0	25 - 135	
p-Terphenyl-d14	91.0	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0404AA Lab Sample ID: L9904064-06 Matrix: Soil

% Solids: 80 Initial Calibration ID: HPMS4 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	M
1,3-Dichlorobenzene	.032	0.70	.032	1	M
1,4-Dichlorobenzene	.034	0.70	.034	1	M
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	U
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0404AA Lab Sample ID: L9904064-06 Matrix: Soil

% Solids: 80 Initial Calibration ID: HPMS4 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	R
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	U
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	R
Benzo(b)fluoranthene	.028	0.70	.028	1	R
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzo(k)fluoranthene	.034	0.70	.034	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0404AA Lab Sample ID: L9904064-06 Matrix: Soil

% Solids: 80 Initial Calibration ID: HPMS4 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	M
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	R
Hexachloroethane	.033	0.70	.033	1	M
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0404AA Lab Sample ID: L9904064-06 Matrix: Soil

% Solids: 80 Initial Calibration ID: HPMS4 11-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 11-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	90.4	25 - 144	
2-Fluorobiphenyl	95.5	34 - 135	
2-Fluorophenol	83.1	25 - 135	
Nitrobenzene-d5	91.3	25 - 135	
Phenol-d5	88.3	25 - 135	
p-Terphenyl-d14	113	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502AA Lab Sample ID: L9904064-26 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	M
1,3-Dichlorobenzene	.032	0.70	.032	1	M
1,4-Dichlorobenzene	.034	0.70	.034	1	M
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	U
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502AA Lab Sample ID: L9904064-26 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	R
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	U
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	R
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzo(k)fluoranthene	.034	0.70	.034	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502AA Lab Sample ID: L9904064-26 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	M
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	R
Hexachlorocyclopentadiene	.087	0.70	.087	1	R
Hexachloroethane	.033	0.70	.033	1	M
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0502AA Lab Sample ID: L9904064-26 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	58.6	25 - 144	
2-Fluorobiphenyl	75.0	34 - 135	
2-Fluorophenol	59.3	25 - 135	
Nitrobenzene-d5	75.5	25 - 135	
Phenol-d5	63.2	25 - 135	
p-Terphenyl-d14	87.9	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55715

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5 7-APR-99

Date Received: 02-APR-99 Date Extracted: 06-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	2.2	5.5	2.2	1.1	R
1,2-Dichlorobenzene	2.09	5.5	2.09	1.1	R
1,3-Dichlorobenzene	1.98	5.5	1.98	1.1	R
1,4-Dichlorobenzene	2.09	5.5	2.09	1.1	U
2,4,5-Trichlorophenol	1.98	28	1.98	1.1	U
2,4,6-Trichlorophenol	1.87	5.5	1.87	1.1	U
2,4-Dichlorophenol	2.09	5.5	2.09	1.1	R
2,4-Dimethylphenol	2.31	5.5	2.31	1.1	R
2,4-Dinitrophenol	9.9	28	9.9	1.1	R
2,4-Dinitrotoluene	1.54	5.5	1.54	1.1	U
2,6-Dinitrotoluene	1.87	5.5	1.87	1.1	U
2-Chloronaphthalene	2.09	5.5	2.09	1.1	R
2-Chlorophenol	1.87	5.5	1.87	1.1	U
2-Methylnaphthalene	2.31	5.5	2.31	1.1	R
2-Methylphenol	1.87	5.5	1.87	1.1	U
2-Nitroaniline	1.76	28	1.76	1.1	U
2-Nitrophenol	1.76	5.5	1.76	1.1	U
3,3'-Dichlorobenzidine	4.73	11	4.73	1.1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55715

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5 7-APR-99

Date Received: 02-APR-99 Date Extracted: 06-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	1.76	28	1.76	1.1	U
4,6-Dinitro-2-methylphenol	2.42	28	2.42	1.1	U
4-Bromophenyl-phenylether	2.42	5.5	2.42	1.1	U
4-Chloro-3-methylphenol	1.98	11	1.98	1.1	R
4-Chloroaniline	2.09	11	2.09	1.1	R
4-Chlorophenyl-phenyl ether	1.87	5.5	1.87	1.1	U
4-Methylphenol	1.65	5.5	1.65	1.1	U
4-Nitroaniline	1.98	28	1.98	1.1	U
Acenaphthene	2.09	5.5	2.09	1.1	U
Acenaphthylene	2.09	5.5	2.09	1.1	U
Anthracene	2.31	5.5	2.31	1.1	U
Benzo(a)anthracene	1.98	5.5	1.98	1.1	U
Benzo(a)pyrene	1.98	5.5	1.98	1.1	U
Benzo(b)fluoranthene	2.42	5.5	2.42	1.1	U
Benzo(g,h,i)Perylene	3.52	5.5	3.52	1.1	R
Benzo(k)fluoranthene	2.2	11	2.2	1.1	U
Benzoic acid	5.06	28	5.06	1.1	R
Benzyl alcohol	1.65	11	1.65	1.1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55715

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5 7-APR-99

Date Received: 02-APR-99 Date Extracted: 06-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	1.76	5.5	1.76	1.1	R
Bis(2-Chloroethyl)ether	1.76	5.5	1.76	1.1	U
Butylbenzylphthalate	2.42	5.5	2.42	1.1	U
Chrysene	2.75	5.5	2.75	1.1	U
Di-N-Butylphthalate	5.5	5.5	5.5	1.1	U
Di-n-octylphthalate	2.2	5.5	2.2	1.1	U
Dibenzo(a,h)Anthracene	3.85	5.5	3.85	1.1	R
Dibenzofuran	2.09	5.5	2.09	1.1	U
Diethylphthalate	2.09	5.5	2.09	1.1	U
Dimethylphthalate	1.98	5.5	1.98	1.1	U
Fluoranthene	2.42	5.5	2.42	1.1	U
Fluorene	1.98	5.5	1.98	1.1	U
Hexachlorobenzene	2.97	5.5	2.97	1.1	U
Hexachlorobutadiene	2.64	5.5	2.64	1.1	R
Hexachlorocyclopentadiene	2.86	5.5	2.86	1.1	R
Hexachloroethane	2.2	5.5	2.2	1.1	U
Indeno(1,2,3-cd)pyrene	2.31	5.5	2.31	1.1	R
Isophorone	1.98	5.5	1.98	1.1	R

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55715

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5 7-APR-99

Date Received: 02-APR-99 Date Extracted: 06-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	1.65	5.5	1.65	1.1	U
N-Nitrosodiphenylamine	4.73	5.5	4.73	1.1	U
Naphthalene	3.08	5.5	3.08	1.1	R
Nitrobenzene	1.76	5.5	1.76	1.1	R
Pentachlorophenol	1.87	28	1.87	1.1	R
Phenanthrene	1.98	5.5	1.98	1.1	U
Phenol	.803	5.5	.803	1.1	R
Pyrene	3.08	5.5	3.08	1.1	U
bis(2-Chloroisopropyl)ether	1.98	5.5	1.98	1.1	U
bis(2-Ethylhexyl)phthalate	2.75	5.5	2.75	1.1	U
p-Nitrophenol	1.76	28	1.76	1.1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	85.1	25 - 134	
2-Fluorobiphenyl	59.1	43 - 125	
2-Fluorophenol	33.9	25 - 125	
Nitrobenzene-d5	53.3	32 - 125	
Phenol-d5	24.1	25 - 125	*
p-Terphenyl-d14	116	42 - 126	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN010504AA Lab Sample ID: L9904064-23 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	M
1,3-Dichlorobenzene	.032	0.70	.032	1	M
1,4-Dichlorobenzene	.034	0.70	.034	1	M
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	U
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	R

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN010504AA Lab Sample ID: L9904064-23 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	R
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	U
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	R
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzo(k)fluoranthene	.034	0.70	.034	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN010504AA Lab Sample ID: L9904064-23 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	M
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	R
Hexachlorocyclopentadiene	.087	0.70	.087	1	R
Hexachloroethane	.033	0.70	.033	1	M
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN010504AA Lab Sample ID: L9904064-23 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	68.2	25 - 144	
2-Fluorobiphenyl	72.6	34 - 135	
2-Fluorophenol	62.3	25 - 135	
Nitrobenzene-d5	75.9	25 - 135	
Phenol-d5	65.2	25 - 135	
p-Terphenyl-d14	84.3	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

APPENDIX C
Quality Assurance/Quality Control Data

Metals QA/QC Data

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B**
Lab Name : **Kemron Environmental Services**
Base/Command : **Carswells AFB**

AAB # : **WG55724**
Contract # : **F41624-95-D-8003-0023**
Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SMW0704AA	L9904064-01
S13SMW0704AA/DUP	L9904064-02
S13SUN0404AA	L9904064-06
S13SSB0204AA	L9904064-07

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **05-MAY-99**

Title: **Laboratory Manager**

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 8-Apr-99 Initial Calibration ID: IRIS-ICP 08-APR-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	0.0208	0.4	0.0458	10	0.5914	20	1.1724	40	2.4323	0.9997	
Cadmium	0	0.0874	0.05	0.1373	1.25	1.5478	2.5	3.0518	5	6.1473	0.9999	
Lead	0	-0.0312	0.5	0.027	12.5	1.1786	25	2.3906	50	4.8812	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0645;v1.0;12/1/97

AFCEE FORM I-3A

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0

Instrument ID: IRIS-ICP Date of Calibration: 8-Apr-99 Initial Calibration ID: IRIS-ICP 08-APR-19

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Barium	0	0.0623	0.5	3.2718	1	6.7955	25	171.48	50	353.99	100	709.89	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845,v1.0,12/1/97

AFCEE FORM I-3B

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG55724

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 08-APR-1999

2nd Source ID: ALT IRIS-ICP 08-APR-1999

ICV ID: ICV IRIS-ICP 08-APR-1999

CCV #1 ID: CCV1 IRIS-ICP 08-APR-1999

CCV #2 ID CCV2 IRIS-ICP 08-APR-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	20	20.2	1	20	20.2000	1	20	20.205	1.02	20.52	2.60	
Barium	50	49.65	-0.70	50	49.65	-0.70	50	50.655	1.31	51.04	2.08	
Cadmium	2.5	2.525	1	2.5	2.525	1	2.5	2.5405	1.62	2.595	3.80	
Lead	25	25.245	0.98	25	25.245	0.98	25	25.66	2.64	26.02	4.08	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG55724

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 08-APR-1999

2nd Source ID: ALT IRIS-ICP 08-APR-1999

ICV ID: ICV IRIS-ICP 08-APR-1999

CCV #3 ID: CCV3 IRIS-ICP 08-APR-1999

CCV #2 ID:

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 0	%D	Q
Arsenic	20	20.2	1	20	20.2000	1	20	20.56	2.80			
Barium	50	49.65	-0.70	50	49.65	-0.70	50	51.885	3.77			
Cadmium	2.5	2.525	1	2.5	2.525	1	2.5	2.625	5.00			
Lead	25	25.245	0.98	25	25.245	0.98	25	26.235	4.94			

Comments:

Forms by ChemSW(707)864-0845:v1.0,12/1/9

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 08-APR-1999 Initial Calibration ID: IRIS-ICP 08-APR-1999

CCB #1 ID CCB1 IRIS-ICP 08-APR-1 CCB #2 ID: CCB2 IRIS-ICP 08-APR-199 CCB #3 ID: CCB3 IRIS-ICP 08-APR-1

Method Blank ID: WG55517-04

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	0.174	0.03500	0.139	0.2435	0.03500	5	
Barium	0.003	0.001	0.008	0.0045	0.001	1	
Cadmium	0.004	0.0035	0.009	0.0105	0.00500	0.5	
Lead	0.10500	0.07500	0.043	0.107	0.031	1.5	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG55724

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55517-05

Units: mg/kg

Initial Calibration IRIS-IC 08-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	20	23	115	75 - 125	
Barium, Total	50	56.1	112.2	75 - 125	
Cadmium, Total	2.5	2.8	112	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SMW0704AA	1-Apr-99	2-Apr-99	8-Apr-99	180	7	
S13SMW0704AA/DUP	1-Apr-99	2-Apr-99	8-Apr-99	180	7	
S13SUN0404AA	1-Apr-99	2-Apr-99	8-Apr-99	180	7	
S13SSB0204AA	1-Apr-99	2-Apr-99	8-Apr-99	180	7	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	8-Apr-99	10:09	8-Apr-99	
S1	8-Apr-99	10:12	8-Apr-99	
S2	8-Apr-99	10:16	8-Apr-99	
S3	8-Apr-99	10:19	8-Apr-99	
S4	8-Apr-99	10:23	8-Apr-99	
S5	8-Apr-99	10:26	8-Apr-99	
ICV IRIS-ICP 08-APR-1999	8-Apr-99	10:34	8-Apr-99	
ICB IRIS-ICP 08-APR-1999	8-Apr-99	10:44	8-Apr-99	
ICSA	8-Apr-99	10:47	8-Apr-99	
ICSAB	8-Apr-99	10:51	8-Apr-99	
CCV1 IRIS-ICP 08-APR-1999	8-Apr-99	10:54	8-Apr-99	
CCB1 IRIS-ICP 08-APR-1999	8-Apr-99	11:02	8-Apr-99	
WG55517-04	8-Apr-99	11:07	8-Apr-99	
WG55517-05	8-Apr-99	11:10	8-Apr-99	
S13SMW0704AA	8-Apr-99	11:14	8-Apr-99	
S13SMW0704AA DILUTION	8-Apr-99	11:17	8-Apr-99	
S13SMW0704AA SPIKE	8-Apr-99	11:21	8-Apr-99	
S13SMW0704AA/DUP	8-Apr-99	11:24	8-Apr-99	
NON-AFCEE	8-Apr-99	11:27	8-Apr-99	
NON-AFCEE	8-Apr-99	11:31	8-Apr-99	
NON-AFCEE	8-Apr-99	11:34	8-Apr-99	
S13SUN0404AA	8-Apr-99	11:38	8-Apr-99	
CCV2 IRIS-ICP 08-APR-1999	8-Apr-99	11:42	8-Apr-99	
CCB2 IRIS-ICP 08-APR-1999	8-Apr-99	11:48	8-Apr-99	
S13SSB0204AA	8-Apr-99	11:52	8-Apr-99	
8 NONAFCEE	8-Apr-99	11:55	8-Apr-99	
CCV3 IRIS-ICP 08-APR-1999	8-Apr-99	12:27	8-Apr-99	
CCB3 IRIS-ICP 08-APR-1999	8-Apr-99	12:33	8-Apr-99	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B**
Lab Name : **Kemron Environmental Services**
Base/Command : **Carswells AFB**

AAB # : **WG55828**
Contract # : **F41624-95-D-8003-0023**
Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SUN0104AA	L9904064-08
S13SUN0104AA/MS	L9904064-09
S13SUN0104AA/MSD	L9904064-10
S13SOW0204AA	L9904064-11
S13SSB0304AA	L9904064-14
S13SSB0304AA/MS	L9904064-15
S13SSB0304AA/MSD	L9904064-16
S13SWP0204ABN	L9904064-17
S13SWP0204AA	L9904064-18
S13SWP0204AA/DUP	L9904064-19

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **05-MAY-99**

Title: **Laboratory Manager**

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B**

Lab Name : **Kemron Environmental Services**

Base/Command : **Carswells AFB**

AAB # : **WG55828**

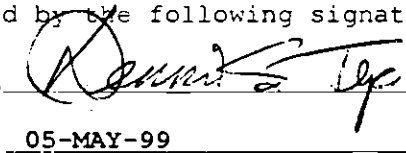
Contract # : **F41624-95-D-8003-0023**

Prime Contractor : **FPM**

Field sample ID	
S13SWP0202ABN	L9904064-20
S13SOW0104AA	L9904064-21
S13SUN010504AA	L9904064-23
S13SMW0604AA	L9904064-24
S13SUN0502AA	L9904064-26

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: 

Name: **Dennis S. Tepe**

Date: **05-MAY-99**

Title: **Laboratory Manager**

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 9-Apr-99 Initial Calibration ID: IRIS-ICP 09-APR-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	0.0187	0.4	0.0625	10	0.8475	20	1.7408	40	3.4881	0.9999	
Cadmium	0	0.0999	0.05	0.2014	1.25	2.1379	2.5	4.2448	5	8.3417	1	
Lead	0	-0.0135	0.5	0.0448	12.5	1.8345	25	3.82	50	7.7029	0.9999	

r = correlation coefficient

Comments:

507 148

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B

AAB#: WG55828

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Date of Calibration: 9-Apr-99

Initial Calibration ID: IRIS-ICP 09-APR-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Barium	0	0.0998	0.5	3.9077	1	7.5009	25	189.11	50	376.33	100	743.95	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0

AFCEE FORM I-3B

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG55828

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 09-APR-1999

2nd Source ID: ALT IRIS-ICP 09-APR-1999

ICV ID: ICV IRIS-ICP 09-APR-1999

CCV #3 ID: CCV3 IRIS-ICP 09-APR-1999

CCV #4 ID CCV4 IRIS-ICP 09-APR-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 4	%D	Q
Arsenic	20	19.73	-1.35	20	19.73	-1.35	20	19.8315	-0.84	20.048	0.24	
Barium	50	50.61	1.22	50	50.61	1.22	50	49.3295	-1.34	48.97600	-2.05	
Cadmium	2.5	2.5035	0.14	2.5	2.5035	0.14	2.5	2.5165	0.66	2.5345	1.38	
Lead	25	25.2275	0.91	25	25.2275	0.91	25	25.7865	3.15	25.6705	2.68	

Comments:

AFCEE FORM I-4

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

Analytical Method: 6010B

AAB#: WG55828

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 09-APR-1999

2nd Source ID: ALT IRIS-ICP 09-APR-1999

ICV ID: ICV IRIS-ICP 09-APR-1999

CCV #1 ID: CCV1 IRIS-ICP 09-APR-1999

CCV #2 ID CCV2 IRIS-ICP 09-APR-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	20	19.73	-1.35	20	19.73	-1.35	20	19.464	-2.68	20.212	1.06	
Barium	50	50.61	1.22	50	50.61	1.22	50	48.8185	-2.36	48.48500	-3.03	
Cadmium	2.5	2.5035	0.14	2.5	2.5035	0.14	2.5	2.4745	-1.02	2.516	0.64	
Lead	25	25.2275	0.91	25	25.2275	0.91	25	24.9135	-0.35	25.7245	2.90	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B

AAB#: WG55828

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 09-APR-1999

CCB #4 ID IRIS-ICP 09-APR-1999

Method Blank ID: WG55518-05

Initial Calibration ID: IRIS-ICP 09-APR-1999

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		4	0	0			
Arsenic	0.0705	0.0705			0.119	5	
Barium	0.016	0.0055			0.0055	1	
Cadmium	0.013	0.0195			0.00100	0.5	
Lead	0.0735	0.0125			0.08000	1.5	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 09-APR-1999

CCB #1 ID IRIS-ICP 09-APR-1999 CCB #2 ID: IRIS-ICP 09-APR-1999 CCB #3 ID: IRIS-ICP 09-APR-1999

Method Blank ID: WG55518-05

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	0.0705	0.001	0.047	0.023	0.119	5	
Barium	0.016	0.0055	0.009	0.00100	0.0055	1	
Cadmium	0.013	0.012	0.0195	0.00100	0.00100	0.5	
Lead	0.0735	0.046	0.277	0.141	0.08000	1.5	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG55828

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55518-06

Units: mg/kg

Initial Calibration IRIS-IC

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	20	22	110	75 - 125	
Barium, Total	50	55.7	111.4	75 - 125	
Cadmium, Total	2.5	2.8	112	75 - 125	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 7

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 6010B AAB # : WG55828

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SUN0104AA Units: mg/kg % Solids: 82

MS ID: S13SUN0104AA MS MSD ID: S13SUN0104AA MSD Initial Calibration IRIS-ICP

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Arsenic, Total	3	24.4	29.3	107.8	28	102.5	4.3	75 - 125	20	
Barium, Total	52	61	156	170.5	115	103.3	30.6	75 - 125	20	*
Cadmium, Total	0.18	3.05	3.05	94.1	3.29	102	7.7	75 - 125	20	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 7

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 6010B AAB # : WG55828

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SSB0304AA Units: mg/kg % Solids: 77

MS ID: S13SSB0304AA MS MSD ID: S13SSB0304AA MSD Initial Calibration IRIS-ICP

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Arsenic, Total	9.9	26	32.5	86.9	31.2	81.9	4.1	75 - 125	20	
Barium, Total	96	64.9	177	124.8	171	115.6	3	75 - 125	20	
Cadmium, Total	0.35	3.25	3.38	93.2	3.77	105.2	10.9	75 - 125	20	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG55828

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SUN0104AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SUN0104AA/MS	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SUN0104AA/MSD	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SOWO204AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SSB0304AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SSB0304AA/MS	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SSB0304AA/MSD	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SWP0204ABN	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SWP0204AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SWP0204AA/DUP	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SWP0202ABN	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13S0W0104AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SUN010504AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SMW0604AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SUN0502AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	9-Apr-99	17:47	9-Apr-99	
S1	9-Apr-99	17:51	9-Apr-99	
S2	9-Apr-99	17:55	9-Apr-99	
S3	9-Apr-99	17:58	9-Apr-99	
S4	9-Apr-99	18:02	9-Apr-99	
S5	9-Apr-99	18:05	9-Apr-99	
ICV IRIS-ICP 09-APR-1999	9-Apr-99	18:10	9-Apr-99	
ICB IRIS-ICP 09-APR-1999	9-Apr-99	18:17	9-Apr-99	
ICSA	9-Apr-99	18:55	9-Apr-99	
ICSAB	9-Apr-99	18:59	9-Apr-99	
CCV1 IRIS-ICP 09-APR-1999	9-Apr-99	19:02	9-Apr-99	
CCB1 IRIS-ICP 09-APR-1999	9-Apr-99	19:06	9-Apr-99	
WG55518-05	9-Apr-99	19:10	9-Apr-99	
WG55518-06	9-Apr-99	19:13	9-Apr-99	
S13SUN0104AA	9-Apr-99	19:17	9-Apr-99	
S13SUN0104AA/MS	9-Apr-99	19:20	9-Apr-99	
S13SUN0104AA/MSD	9-Apr-99	19:23	9-Apr-99	
S13SUN0104AA SPIKE	9-Apr-99	19:27	9-Apr-99	
S13SOWO204AA	9-Apr-99	19:34	9-Apr-99	
NON-AFCEE	9-Apr-99	19:37	9-Apr-99	
NON-AFCEE	9-Apr-99	19:41	9-Apr-99	
CCV2 IRIS-ICP 09-APR-1999	9-Apr-99	19:45	9-Apr-99	
CCB2 IRIS-ICP 09-APR-1999	9-Apr-99	19:51	9-Apr-99	
S13SSB0304AA	9-Apr-99	19:55	9-Apr-99	
S13SSB0304AA/MS	9-Apr-99	19:59	9-Apr-99	
S13SSB0304AA/MSD	9-Apr-99	20:02	9-Apr-99	
S13SWP0204ABN	9-Apr-99	20:05	9-Apr-99	
S13SWP0204AA	9-Apr-99	20:09	9-Apr-99	
S13SWP0204A/DUP	9-Apr-99	20:12	9-Apr-99	
S13SWP0202ABN	9-Apr-99	20:16	9-Apr-99	
S13S0W0104AA	9-Apr-99	20:19	9-Apr-99	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
NON-AFCEE	9-Apr-99	20:23	9-Apr-99	
S13SUN010504AA	9-Apr-99	20:26	9-Apr-99	
CCV3 IRIS-ICP 09-APR-1999	9-Apr-99	20:31	9-Apr-99	
CCB3 IRIS-ICP 09-APR-1999	9-Apr-99	20:37	9-Apr-99	
S13SMW0604AA	9-Apr-99	20:40	9-Apr-99	
NON-AFCEE	9-Apr-99	20:44	9-Apr-99	
S13SUN0502AA	9-Apr-99	20:47	9-Apr-99	
NON-AFCEE	9-Apr-99	20:51	9-Apr-99	
CCV4 IRIS-ICP 09-APR-1999	9-Apr-99	21:08	9-Apr-99	
CCB4 IRIS-ICP 09-APR-1999	9-Apr-99	21:14	9-Apr-99	

Comments:

507 159

Chain of Custody Forms

Work Order L9904064 Client FPM #of Samples 27 Due Date 4/12 Page 1

Sample #	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
25-27,23 3-6,12,13,18,22 RM 4-5	BNA	Ext	AL 4-5-99 @ 0840	walkin	S.ID	TLB	CEB 4/5/99 @ 1220	Archive	TLB	Archive
01-27	MET	DIG	SJK040599 @ 910	walkin	MET	TLB	SJK040599 @ 1110	walkin	NB	STORAGE
8,9,10	BNA	Ext	CEB 4/5/99 @ 0955	WALKIN	ELAB	NB	CEB 4/5/99 @ 1220	Archive	TLB	Archive
1-27	PCTS	test	dch/4/6/0800	walkin	WET	Blg @ 0830	dch/4/6/1330	archive	Blg	Archive

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG57270

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SSB0204AA/SPLP EXTR	L9905021-02
S13SSB0304AA/SPLP EXTR	L9905021-04

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 14-MAY-99

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

507 162

METALS - 6010/7000:

There were no technical difficulties associated with analysis of this SDG.

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

507163

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG57270

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP Date of Calibration: 7-May-99 Initial Calibration ID: PE-ICP 07-MAY-1999

Units: mg/L

Analyte	Std1	RF1	Std2	RF2	Std3	RF3	r	Q
Arsenic	0.004	56.6	0.4	6145.3	0.8	12693	0.9999	

r = correlation coefficient

Comments:
SO results are AS -3.6.

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG57270

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-002

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 07-MAY-1999

2nd Source ID: PE-ICP 07-MAY-1999

ICV ID: ICV PE-ICP 07-MAY-1999

CCV #1 ID: CCV PE-ICP 07-MAY-1999

CCV #2 ID CCV PE-ICP 07-MAY-1999

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	0.4	0.395	-1.25	0.4	0.395	-1.25	0.4	0.407	1.75	0.398	-0.5	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1 0,12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG57270

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Initial Calibration Blank ID: PE-ICP 07-MAY-1999 Initial Calibration ID: PE-ICP 07-MAY-1999

CCB #1 ID PE-ICP 07-MAY-1999 CCB #2 ID: PE-ICP 07-MAY-1999 CCB #3 ID:

Method Blank ID: WG57195-03 Initial Calibration ID: PE-ICP 07-MAY-1999

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	-0.00008	-0.00028	0.00001		-0.0005	0.005	

Comments:

AFCEE FORM I-5

Forms by ChemSW(707)864-

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG57270

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG57195-04

Units: mg/L

Initial Calibration PE-ICP 07-MAY-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	.4	0.395	98.8	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG57270

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SSB0204AA	1-Apr-99	2-Apr-99	7-May-99	180	36	
S13SSB0304AA	1-Apr-99	2-Apr-99	7-May-99	180	36	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-002

Instrument ID #: PE-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	7-May-99	10:39	7-May-99	
S1	7-May-99	10:43	7-May-99	
S2	7-May-99	10:47	7-May-99	
S3	7-May-99	10:52	7-May-99	
ICV PE-ICP 07-MAY-1999	7-May-99	10:56	7-May-99	
ICB PE-ICP 07-MAY-1999	7-May-99	11:01	7-May-99	
ICSA	7-May-99	11:05	7-May-99	
ICSAB	7-May-99	11:36	7-May-99	
CCV1 PE-ICP 07-MAY-1999	7-May-99	11:45	7-May-99	
CCB1 PE-ICP 07-MAY-1999	7-May-99	11:49	7-May-99	
WG57195-03	7-May-99	11:53	7-May-99	
WG57195-04	7-May-99	11:57	7-May-99	
S13SSB0204AA	7-May-99	12:06	7-May-99	
S13SSB0204AA SP	7-May-99	12:10	7-May-99	
S13SSB0204AA DUP	7-May-99	12:14	7-May-99	
S13SSB0304AA	7-May-99	12:19	7-May-99	
S13SSB0304AA DIL	7-May-99	12:23	7-May-99	
CCV2 PE-ICP 07-MAY-1999	7-May-99	12:36	7-May-99	
CCB2 PE-ICP 07-MAY-1999	7-May-99	12:41	7-May-99	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

Chain of Custody Forms

Work Order L9905021 Client FPM #of Samples 2 Due Date 5/10 Page

Sample # PRV.	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
04-064-7+14	—	Relog	Big 5/3/99 @ 1400	Archive	Walkin	TLB				
01,03	TCLP	EXT	FEH/5/04/99/940	WALK IN	TCLP	TLB	FEH/9/04/99/1315	ARCHIVE	Big	ARCHIVE
02,04	EXTRACT	—	PAL 5-5-99 @1104	TCLP	WALKIN	Big				
0204	MET	DIG	STK0506799@1200	walkin	MET	Big	STK0506799@940	Archive	Big	Archive

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AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG57799

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SOWO104AA/SPLP EXTR	L9905196-02

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 19-MAY-99

Title: Laboratory Manager

Order #99-05-196
May 19, 1999 9:04

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

METALS - 6010/7000:

There were no technical difficulties associated with this sample set.

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

507 171

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG57799

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP Date of Calibration: 18-May-99 Initial Calibration ID: PE-ICP 18-MAY-1999

Units: mg/L

Analyte	Std1	RF1	Std2	RF2	Std3	RF3	r	Q
Arsenic	0.004	42.6	0.4	6691.9	0.8	13686.1	0.9999	

r = correlation coefficient

Comments:
SO results are AS -13.

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG57799

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 18-MAY-1999

2nd Source ID: ALT PE-ICP 18-MAY-1999

ICV ID: ICV PE-ICP 18-MAY-1999

CCV #1 ID: CCV1 PE-ICP 18-MAY-1999

CCV #2 ID CCV2 PE-ICP 18-MAY-1999

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	0.4	0.406	1.5	0.4	0.406	1.5	0.4	0.407	1.75	0.405	1.25	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1.0.12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG57799

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Initial Calibration Blank ID: ICB PE-ICP 18-MAY-99 Initial Calibration ID: PE-ICP 18-MAY-99

CCB #1 ID CCB1 PE-ICP 18-MAY-99 CCB #2 ID: CCB2 PE-ICP 18-MAY-99 CCB #3 ID:

Method Blank ID: WG57746-02

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	0			
Arsenic	-0.00043	-0.00074	-0.0008		-0.00083	0.005	

Comments:

AFCEE FORM I-5

Forms by ChemSW(707)864-

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG57799

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG57746-03

Units: mg/L

Initial Calibration PE-ICP 18-MAY-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	.4	0.403	100.8	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG57799

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13S0W0104AA/SPLP EXT	1-Apr-99	2-Apr-99	18-May-99	180	34	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: PE-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	18-May-99	11:27	18-May-99	
S1	18-May-99	11:32	18-May-99	
S2	18-May-99	11:36	18-May-99	
S3	18-May-99	11:41	18-May-99	
ALT/ICV PE-ICP 18-MAY-99	18-May-99	11:45	18-May-99	
ICB PE-ICP 18-MAY-1999	18-May-99	11:49	18-May-99	
ICSA PE-ICP 18-MAY-1999	18-May-99	11:53	18-May-99	
ICSAB PE-ICP 18-MAY-1999	18-May-99	11:58	18-May-99	
CCV1 PE-ICP 18-MAY-1999	18-May-99	12:02	18-May-99	
CCB1 PE-ICP 18-MAY-1999	18-May-99	12:06	18-May-99	
WG57746-02	18-May-99	12:15	18-May-99	
WG57746-03	18-May-99	12:20	18-May-99	
S13S0W0104AA	18-May-99	12:28	18-May-99	
S13S0W0104AA SP	18-May-99	12:33	18-May-99	
S13S0W0104AA MS	18-May-99	12:37	18-May-99	
S13S0W0104AA MSD	18-May-99	12:41	18-May-99	
S13S0W0104AA DUP	18-May-99	12:46	18-May-99	
CCV2 PE-ICP 18-MAY-1999	18-May-99	12:50	18-May-99	
CCB2 PE-ICP 18-MAY-1999	18-May-99	12:54	18-May-99	

Comments:

AFCEE FORM I-9

Forms by ChemSW(707)864-0845;v1.0;12/1/97

Chain of Custody Forms

Work Order 9905196 Client FPM #of Samples 1 Due Date 6/18 Page

Sample #	Analyses	Reason	Removed By ADT	Removed From	Moved To	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
01	TCLP	EXT	Rec 5-12-99 @1225	WALKIN	TCLP	TLB	Rec 5-12-99 @1400	Archive	TLB	Archive
02	SPLP EXTRACT	—	Rec 5-13-99@0900	TCLP	WALKIN	TLB	—	—	—	—
02	MET	DIG	SJK05189@800	walkin	MET	TLB 219835	SJK05189@935	Archive	RDG	Archive

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B** AAB # : **WG57946**

Lab Name : **Kemron Environmental Services** Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB** Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SMW0708AA ✓	L9905383-01
S13SMW0608AA ✓	L9905383-02
S13SSB0306AA	L9905383-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release f the data contained in this hardcopy data package and in the computer-readable data ubmitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe Name: **Dennis S. Tepe**

Date: **25-MAY-99** Title: **Laboratory Manager**

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identificd compound (using GC/MS)

507 184

Order #99-05-383
May 26, 1999 10:03

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

METALS - 6010/7000:

There were no technical difficulties associated with this sample set.

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG57946

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 20-May-99 Initial Calibration ID: IRIS-ICP 20-MAY-99

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	0.01664	0.4	0.03537	10	0.70591	20	1.3764	40	2.7801	1	
Cadmium	0	0.09206	0.05	0.14512	1.25	1.5258	2.5	2.8236	5	5.5835	0.9999	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845:v1

AFCEE FORM I-3A

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG57946

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 20-MAY-99

2nd Source ID: ALT IRIS-ICP 20-MAY-99

ICV ID: ICV IRIS-ICP 20-MAY-99

CCV #1 ID: CCV1 IRIS-ICP 20-MAY-99

CCV #2 ID CCB2 IRIS-ICP 20-MAY-99

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	20	19.9	-0.5	20	19.9	-0.5	20	20.2	1	20.6	3	
Cadmium	2.5	2.45	-2	2.5	2.45	-2	2.5	2.52	0.8	2.57	2.8	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1.0,12/1/97

6

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG57946

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 20-MAY-99

2nd Source ID: ALT IRIS-ICP 20-MAY-99

ICV ID: ICV IRIS-ICP 20-MAY-99

CCV #3 ID: CCV3 IRIS-ICP 20-MAY-99

CCV #4 ID:

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 4	%D	Q
Arsenic	20	19.9	-0.5	20	19.9	-0.5	20	20.1	0.5			
Cadmium	2.5	2.45	-2	2.5	2.45	-2	2.5	2.49	-0.4			

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845:v1 0.12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG57946

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0

Initial Calibration Blank ID: ICB IRIS-ICP 20-MAY-99 Initial Calibration ID: IRIS-ICP 20-MAY-99

CCB #1 ID CCB1 IRIS-ICP 20-MAY- CCB #2 ID: CCB2 IRIS-ICP 20-MAY-99 CCB #3 ID: CCB3 IRIS-ICP 20-MAY-9

Method Blank ID: WG57915-03

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	-0.119	0.001	0.029	0.0585	0.178	5	
Cadmium	0.021	0.0195	0.0125	0.0015	0.003	0.5	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG57946

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG57915-04

Units: mg/kg

Initial Calibration IRIS-IC 20-MAY-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	20	20.8	104	75 - 125	
Cadmium, Total	2.5	2.59	103.6	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG57946

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SMW0708AA	1-Apr-99	2-Apr-99	20-May-99	180	49	
S13SMW0608AA	1-Apr-99	2-Apr-99	20-May-99	180	49	
S13SSB0306AA	1-Apr-99	2-Apr-99	20-May-99	180	49	

Comments:

Forms by ChemSW(707)864-0845,v1.0,12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	20-May-99	10:30	20-May-99	
S1	20-May-99	10:38	20-May-99	
S2	20-May-99	10:41	20-May-99	
S3	20-May-99	10:45	20-May-99	
S4	20-May-99	10:48	20-May-99	
ICV PE-ICP-20-MAY-99	20-May-99	10:53	20-May-99	
ICB PE-ICP-20-MAY-99	20-May-99	11:00	20-May-99	
ICSA PE-ICP 20-MAY-99	20-May-99	11:14	20-May-99	
ICSAB PE-ICP 20-MAY-99	20-May-99	11:17	20-May-99	
CCV1 PE-ICP 20-MAY-99	20-May-99	11:23	20-May-99	
CCB1 PE-ICP 20-MAY-99	20-May-99	11:29	20-May-99	
WG57915-03	20-May-99	11:35	20-May-99	
WG57915-04	20-May-99	11:39	20-May-99	
CCV2 PE-ICP 20-MAY-99	20-May-99	12:11	20-May-99	
CCB2 PE-ICP 20-MAY-99	20-May-99	12:17	20-May-99	
S13SMW0708AA	20-May-99	12:31	20-May-99	
S13SMW0608AA	20-May-99	12:34	20-May-99	
S13SSB0306AA	20-May-99	12:38	20-May-99	
S13SSB0306AA DIL	20-May-99	12:41	20-May-99	
S13SSB0306AA SP	20-May-99	12:45	20-May-99	
CCV3 PE-ICP 20-MAY-99	20-May-99	12:49	20-May-99	
CCB3 PE-ICP 20-MAY-99	20-May-99	12:56	20-May-99	

Comments:

Chain of Custody Forms

Work Order L9905383 Client ~~EPM~~ EPM #of Samples 3 Due Date 5/26 Page

Sample # PRV. 4-071	Analyses	Reason	Removed By ADT	Removed From	Moved To	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
31, 37, 42	—	Relog	BAG 5/19/99 @1300	Archive	Walkin	TCB				
1→3	MET	DIG	SJKOSFAFC@230	walkin	MET	TCB				
1-3	~~ANALYSIS~~ ANAL	ANAL	NLC 5-21-99 10:15	WALKIN	MET	TCB	SJKOSFAFC@230 NLC 5-21-99 @25	Walkin Archive	TCB BAG	STORAGE Archive

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

Lab Name : Kemron Environmental Services

Base/Command : Carswells AFB

AAB # : WG58135

Contract # : F41624-95-D-8003-0023

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SOW0204AA/SPLP EXTR	L9905346-02
S13SWP0204ABN/SPLP EXT	L9905346-04
S13SWP0204AA/SPLP EXTR	L9905346-06
S13SWP0202ABN/SPLP EXT	L9905346-08
S13SMW0604AA/SPLP EXTR	L9905346-10
S13SUN0502AA/SPLP EXTR	L9905346-12

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 25-MAY-99

Title: Laboratory Manager

Order #99-05-346
May 25, 1999 11:02

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

These samples were analyzed for SPLP arsenic. These samples were previously logged as Kemron ID L99-04-064-11,-18,-17,-20,-24, -26.

METALS - 6010/7000:

There were no technical difficulties associated with this sample set.

507 196

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

507 197

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG58135

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Instrument ID: PE-ICP Date of Calibration: 24-May-99 Initial Calibration ID: PE-ICP 24-MAY-99

Units (mg/L or mg/kg): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	-8.5	0.004	68.7	0.4	9550.8	0.8	19747.9			0.9999	

r = correlation coefficient

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG58135

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 24-MAY-99

2nd Source ID: ALT PE-ICP 24-MAY-99

ICV ID: ICV PE-ICP 24-MAY-99

CCV #1 ID: CCV1 PE-ICP 24-MAY-99

CCV #2 ID CCV2 PE-ICP 24-MAY-99

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	0.4	0.407	1.75	0.4	0.407	1.75	0.4	0.409	2.25	0.398	-0.5	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845 v1.0 12/15

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG58135

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 24-MAY-99

2nd Source ID: ALT PE-ICP 24-MAY-99

ICV ID: ICV PE-ICP 24-MAY-99

CCV #3 ID: CCV3 PE-ICP 24-MAY-99

CCV #4 ID:

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 4	%D	Q
Arsenic	0.4	0.407	1.75	0.4	0.407	1.75	0.4	0.399	-0.25			

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG58135

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0

Initial Calibration Blank ID: ICB PE-ICP 24-MAY-99 Initial Calibration ID: PE-ICP 24-MAY-99

CCB #1 ID CCB1 PE-ICP 24-MAY-99 CCB #2 ID: CCB2 PE-ICP 24-MAY-99 CCB #3 ID: CCB3 PE-ICP 24-MAY-99

Method Blank ID: WG58110-03

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	-0.00028	-0.00041	-0.00036	-0.00023	-0.00022	0.005	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG58135

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG58110-04

Units: mg/L

Initial Calibration PE-ICP 24-MAY-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	.4	0.410	102.5	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG58135

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SOW0204AA/SPLP EXT	1-Apr-99	2-Apr-99	24-May-99	180	53	
S13SWP0204ABN/SPLP EX	1-Apr-99	2-Apr-99	24-May-99	180	53	
S13SWP0204AA/SPLP EXT	1-Apr-99	2-Apr-99	24-May-99	180	53	
S13SWP0202ABN/SPLP EX	1-Apr-99	2-Apr-99	24-May-99	180	53	
S13SMW0604AA/SPLP EXT	1-Apr-99	2-Apr-99	24-May-99	180	53	
S13SUN0502AA/SPLP EXT	1-Apr-99	2-Apr-99	24-May-99	180	53	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: PE-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	24-May-99	10:03	24-May-99	
S1	24-May-99	10:07	24-May-99	
S2	24-May-99	10:12	24-May-99	
S3	24-May-99	10:16	24-May-99	
ICV PE-ICP-24-MAY-99	24-May-99	10:21	24-May-99	
ICB PE-ICP-24-MAY-99	24-May-99	10:25	24-May-99	
ICSA PE-ICP 24-MAY-99	24-May-99	10:29	24-May-99	
ICSAB PE-ICP 24-MAY-99	24-May-99	10:33	24-May-99	
CCV1 PE-ICP 24-MAY-99	24-May-99	10:37	24-May-99	
CCB1 PE-ICP 24-MAY-99	24-May-99	10:42	24-May-99	
WG58110-03	24-May-99	10:46	24-May-99	
WG58110-04	24-May-99	10:50	24-May-99	
S13SOW0204AA/SPLP EXT	24-May-99	10:59	24-May-99	
S13SOW0204AA/SPLP EXT SP	24-May-99	11:03	24-May-99	
S13SOW0204AA/SPLP EXT DUP	24-May-99	11:07	24-May-99	
S13SWP0204ABN/SPLP EXT	24-May-99	11:12	24-May-99	
S13SWP0204ABN/SPLP EXT MS	24-May-99	11:16	24-May-99	
S13SWP0204ABN/SPLP EXT MSD	24-May-99	11:21	24-May-99	
S13SWP0204AA/SPLP EXT	24-May-99	11:25	24-May-99	
CCV2 PE-ICP 24-MAY-99	24-May-99	11:30	24-May-99	
CCB2 PE-ICP 24-MAY-99	24-May-99	11:34	24-May-99	
S13SWP0202ABN/SPLP EXT	24-May-99	11:38	24-May-99	
S13SMW0604AA/SPLP EXT	24-May-99	11:42	24-May-99	
S13SUN0502AA/SPLP EXT	24-May-99	11:47	24-May-99	
S13SUN0502AA/SPLP EXT DIL	24-May-99	11:51	24-May-99	
CCV3 PE-ICP 24-MAY-99	24-May-99	11:56	24-May-99	
CCB3 PE-ICP 24-MAY-99	24-May-99	12:00	24-May-99	

Comments:

Chain of Custody Forms

Work Order L9905346 Client FPM #of Samples 12 Due Date 5/31 Page ____

Sample #	Analyses	Reason	Removed By ADT	Removed From	Moved To	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
01,03.05 07.09.11	TCLP	EXT	RWC 5-18-99 @1130	WALKIN	TCLP	BIG	RWC 5-18-99 @1600	Archive	BIG	Archive
02,04,06 08,10,12	TC EXTRACT	—	RWC 5-19-99 @ 830	TCLP	WALKIN	MB	—		—	—
02,04.06 08,10,12	MET	DIG	SJKOS 1999@1100	Walkin	MET	BIG	SJKOS499@ 810	Archive	MB	Archive

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG59922

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SMW0708AA/SPLP EXTR	L9906401-02
S13SMW0608AA/SPLP EXTR	L9906401-04

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

ignature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 28-JUN-99

Title: Laboratory Manager

Order #99-06-401
June 24, 1999 13:10

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

507 208

METALS - 6010/7000:

No technical difficulties were encountered during the analysis of this sample.

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

5.07 2.09

507 2170

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG59922

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP Date of Calibration: 23-Jun-99 Initial Calibration ID: PE-ICP 23-JUN-1999

Units: mg/L

Analyte	Std1	RF1	Std2	RF2	Std3	RF3	r	Q
Arsenic	0.004	38.3	0.4	4897.4	0.8	10080.3	0.9999	

r = correlation coefficient

Comments:
SO results are AS -4.4.

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG59922

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 23-JUN-1999

2nd Source ID: ICV PE-ICP 23-JUN-1999

ICV ID: ICV PE-ICP 23-JUN-1999

CCV #1 ID: CCV1 23-JUN-1999

CCV #2 ID CCV2 23-JUN-1999

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	0.4	0.399	-0.25	0.4	0.399	-0.25	0.4	0.397	-0.75	0.398	-0.5	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845 v1.0.12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG59922

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 23-JUN-1999

2nd Source ID: ICV PE-ICP 23-JUN-1999

ICV ID: ICV PE-ICP 23-JUN-1999

CCV #3 ID: CCV3 23-JUN-1999

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D		%D	Q
Arsenic	0.4	0.399	-0.25	0.4	0.399	-0.25	0.4	0.391	-2.25			

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845;v1 0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG59922

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Initial Calibration Blank ID: ICB PE-ICP 23-JUN-99 Initial Calibration ID: PE-ICP 23-JUN-99

CCB #1 ID CCB1 PE-ICP 23-JUN-99 CCB #2 ID: CCB2 PE-ICP 23-JUN-99 CCB #3 ID: CCB3 PE-ICP 23-JUN-99

Method Blank ID: WG59808-03

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	-0.00005	-0.00021	-0.00030	-0.00029	-0.00025	0.005	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG59922

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59808-04

Units: mg/L

Initial Calibration PE-ICP 23-JUN-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	.4	0.400	100	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG59922

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SMW0708AA/SPLP EXT	01-APR-199	2-Apr-99	23-Jun-99	180	83	
S13SMW0608AA/SPLP EXT	01-APR-199	2-Apr-99	23-Jun-99	180	83	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: PE-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	23-Jun-99	10:04	23-Jun-99	
S1	23-Jun-99	10:09	23-Jun-99	
S2	23-Jun-99	10:13	23-Jun-99	
S3	23-Jun-99	10:17	23-Jun-99	
ALT/ICV PE-ICP 23-JUN-99	23-Jun-99	10:22	23-Jun-99	
ICB PE-ICP 23-JUN-1999	23-Jun-99	10:26	23-Jun-99	
ICSA PE-ICP 23-JUN-1999	23-Jun-99	10:30	23-Jun-99	
ICSAB PE-ICP 23-JUN-1999	23-Jun-99	10:34	23-Jun-99	
CCV1 PE-ICP 23-JUN-1999	23-Jun-99	10:39	23-Jun-99	
CCB1 PE-ICP 23-JUN-1999	23-Jun-99	10:43	23-Jun-99	
WG59808-03	23-Jun-99	10:52	23-Jun-99	
WG59808-04	23-Jun-99	10:56	23-Jun-99	
S13SMW0708AA	23-Jun-99	11:18	23-Jun-99	
CCV2 PE-ICP 23-JUN-1999	23-Jun-99	11:31	23-Jun-99	
CCB2 PE-ICP 23-JUN-1999	23-Jun-99	11:36	23-Jun-99	
S13SMW0608AA	23-Jun-99	11:40	23-Jun-99	
CCV3 PE-ICP 23-JUN-1999	23-Jun-99	12:23	23-Jun-99	
CCB3 PE-ICP 23-JUN-1999	23-Jun-99	12:27	23-Jun-99	

Comments:

Chain of Custody Forms

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Work Order C9906401 Client FPM # of Samples 2 Due Date 6/24 Page

Sample #	Analyses	Reason	Removed By ADT	Removed From	Moved To	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
PRV-5-383										
01-2	—	Reloq	NS 6-17-99 @0830	Archive	Walkin	Blq				
01,03	TCLP	EXT Storage	FGN 6-21-99 @820	WALK IN	TCLP	TLB	FGN 6-21-99 1050	ARCHIVE	Blq	ARCHIVE
02,04	—		FGN 6-22-99 @ 900	TCLP	WALK IN	Blq				
02,04	MET	DIG	SSK062299@910	walkin	MET	Blq	SSK062299@1430	Archive	Blq	Archive

VOC QA/QC Data

FPM

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

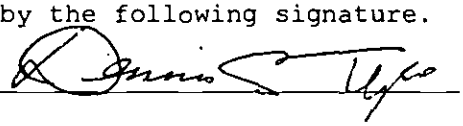
Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SUN0303BA	L9906512-01
S13SUN0303BC	L9906512-02

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: 

Name: Dennis S. Tepe

Date: 13-JUL-99

Title: Laboratory Manager

Order #99-06-512
July 14, 1999 14:48

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

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SAMPLE RECEIPT AND LOGIN:

The cooler temperature was 6° degrees Celsius. All samples were received intact.

VOLATILE ORGANICS - 8260:

Description of the "R" qualifiers associated with this SDG are as follows:

Analysis Date	Instrument	Matrix	Analyte	Description
06/03/99	HPMS9	Water	Naphthalene	Second source calibration verification CL exceeded (high)
07/02/99	HPMS9	Water	Carbon tetrachloride	CCV % Drift CL exceeded (high)
			Dibromochloromethane	CCV % Drift CL exceeded (high)
			Bromoform	CCV % Drift CL exceeded (high)
			1,2-dibromo-3-chloro-propane	CCV % Drift CL exceeded (high)
			Naphthalene	CCV % Drift CL exceeded (high)
06/24/99	HPMS6	Soil	Bromomethane	Second source calibration verification CL exceeded (high)
			Trichlorofluoromethane	
06/27/99	HPMS6	Soil	Bromomethane	CCV % Drift CL exceeded (high)
			Trichlorofluoromethane	CCV % Drift CL exceeded (low)
06/28/99	HPMS6	Soil	Trichlorofluoromethane	CCV % Drift CL exceeded (low)

The following LCS recovery results exceeded the upper control limits:

Analysis Date	Instrument	Matrix	Analyte
06/27/99	HPMS6	Soil	Bromomethane
06/28/99	HPMS6	Soil	Bromomethane
07/02/99	HPMS9	Water	Dichlorodifluoromethane
			Bromomethane
			Carbon tetrachloride
			Bromoform
			1,3,5-trimethylbenzene

Several water and soil MS/MSD and/or ROD results were outside control limits.

SEMIVOLATILE ORGANICS - 8270:

The second source standard failed to meet criteria for 2,4-dinitrophenol and 4-nitroaniline. The LCS associated with the water samples yielded % recoveries for several analytes that were above advisory limits, and benzoic acid recovered below advisory limits. The surrogate recovery for phenol-d5 was below advisory limits in the water sample. All results have been appropriately flagged.

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

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Calibration Table Report
Method: 8260RSL.M
Title: Method 8260B_SOIL - ICAL 06/24/99 HPMS 6
Last Calibration: Fri Jun 25 08:57:13 1999

Calibration Files

Compound	1 (BM14200.D)	2 (BM14199.D)	5 (BM14198.D)	10 (BM14197.D)	20 (BM14196.D)	50 (BM14195.D)	100 (BM14201.D)	200 (BM14207.D)	Avg	%RSD	
Fluorobenzene	ISTD										
Dichlorodifluoromethane	0.239	0.225	0.235	0.277	0.247	0.238	0.249		0.244	6.788	
Chloromethane	0.196	0.172	0.163	0.183	0.166	0.145	0.169		0.170	9.444	
Vinyl Chloride	0.112	0.115	0.099	0.124	0.103	0.090	0.084		0.104	13.627	
Bromomethane	0.085	0.093	0.091	0.095	0.090	0.083	0.091		0.090	4.681	
Chloroethane	0.079	0.078	0.090	0.098	0.089	0.084	0.090		0.087	7.962	
Trichlorofluoromethane	0.243	0.241	0.370	0.291	0.315	0.389	0.255		0.300	20.071	QR,F
Isoprene	0.336	0.278	0.328	0.405	0.369	0.358	0.373		0.350	11.538	
Acrolein			0.005	0.009	0.011	0.011	0.006		0.008	32.254	QR,F
1,1,2-Trichloro-1,2,2-Trifluoroet	0.242	0.228	0.233	0.286	0.248	0.238	0.252		0.247	7.737	
Acetone			0.121	0.091	0.074	0.057	0.054	0.052	0.075	36.432	LR,F
1,1-Dichloroethene	0.188	0.205	0.207	0.255	0.219	0.219	0.224		0.217	9.580	
Dimethyl Sulfide	0.184	0.190	0.212	0.240	0.236	0.228	0.251		0.220	11.652	
Iodomethane	0.150	0.150	0.179	0.221	0.225	0.237	0.249		0.202	20.449	LR,F
Methylene Chloride	0.388	0.337	0.277	0.277	0.235	0.220	0.225		0.280	22.298	LR,F
Carbon Disulfide	1.003	0.746	0.788	0.934	0.838	0.802	0.825		0.848	10.508	
Acrylonitrile	0.045	0.054	0.059	0.059	0.063	0.057	0.062	0.062	0.058	10.149	
Methyl Tert Butyl Ether	0.553	0.534	0.572	0.577	0.578	0.553	0.578		0.564	3.033	
trans-1,2-Dichloroethene	0.217	0.230	0.231	0.273	0.237	0.240	0.242		0.239	7.307	
n-Hexane	0.510	0.383	0.386	0.456	0.411	0.387	0.399		0.419	11.257	
Vinyl Acetate	0.292	0.295	0.339	0.329	0.342	0.330	0.346		0.325	6.807	
1,1-Dichloroethane	0.376	0.388	0.386	0.460	0.397	0.397	0.403		0.401	6.803	
2-Butanone			0.221	0.086	0.087	0.077	0.082	0.081	0.106	53.577	LR,F
2,2-Dichloropropane	0.305	0.314	0.332	0.410	0.354	0.366	0.366		0.349	10.254	
cis-1,2-Dichloroethene	0.229	0.249	0.250	0.302	0.261	0.264	0.267		0.260	8.606	
Chloroform	0.378	0.401	0.400	0.465	0.408	0.411	0.415		0.411	6.424	
Bromochloromethane	0.086	0.110	0.107	0.126	0.116	0.114	0.118		0.111	11.236	
Dibromofluoromethane			0.340	0.294	0.257	0.245	0.264	0.230	0.270	14.795	
1,1,1-Trichloroethane	0.332	0.356	0.355	0.445	0.387	0.391	0.393		0.380	9.628	
Cyclohexane	0.430	0.335	0.397	0.490	0.449	0.430	0.442		0.425	11.372	
t-Dichloropropene	0.288	0.290	0.296	0.365	0.312	0.314	0.320		0.312	8.557	
Carbon Tetrachloride	0.262	0.284	0.298	0.376	0.329	0.340	0.344		0.319	12.432	
1,2-Dichloroethane-d4			0.276	0.243	0.229	0.226	0.216		0.238	9.912	
1,2-Dichloroethane	0.256	0.276	0.277	0.302	0.270	0.268	0.271		0.274	5.169	
Benzene	0.909	0.925	0.916	1.088	0.941	0.941	0.946		0.952	6.458	
Trichloroethene	0.261	0.279	0.277	0.335	0.287	0.290	0.292		0.289	7.911	
1,2-Dichloropropane	0.200	0.216	0.213	0.248	0.219	0.219	0.225		0.220	6.657	
Bromodichloromethane	0.253	0.262	0.277	0.318	0.287	0.295	0.303		0.285	8.017	
Dibromomethane	0.103	0.112	0.121	0.129	0.117	0.115	0.121		0.117	7.022	
2-Chloroethyl Vinyl Ether	0.056	0.068	0.082	0.082	0.080	0.076	0.086		0.076	13.711	
4-Methyl-2-Pentanone			0.063	0.063	0.067	0.063	0.069	0.069	0.066	4.554	
cis-1,3-Dichloropropene	0.288	0.305	0.326	0.365	0.331	0.339	0.346		0.3287	7.7971	
Dimethyl Disulfide	0.089	0.098	0.192	0.161	0.177	0.19	0.2		0.1582	29.189	LR,F
Chlorobenzene-d5	ISTD										
Toluene-d8			1.523	1.311	1.241	1.21	1.125		1.2852	11.724	
Toluene	1.352	1.356	1.357	1.626	1.398	1.397	1.395		1.4114	6.8029	
Ethyl Methacrylate	0.324	0.298	0.353	0.339	0.36	0.345	0.371		0.3415	7.1307	
trans-1,3-Dichloropropene	0.332	0.358	0.392	0.445	0.413	0.422	0.428		0.3987	10.177	
1,1,2-Trichloroethane	0.225	0.243	0.244	0.264	0.238	0.238	0.241		0.2416	4.7945	
2-Hexanone			0.195	0.167	0.18	0.161	0.175	0.174	0.1754	6.6223	
1,3-Dichloropropane	0.381	0.409	0.407	0.439	0.401	0.399	0.407		0.4064	4.2983	
Tetrachloroethene	0.282	0.309	0.318	0.383	0.327	0.326	0.324		0.3242	9.4309	
Dibromochloromethane	0.229	0.253	0.269	0.304	0.292	0.3	0.313		0.28	10.921	
1,2-Dibromoethane	0.223	0.236	0.251	0.269	0.251	0.248	0.255		0.2476	5.9397	
Chlorohexane	0.472	0.381	0.461	0.568	0.517	0.508	0.523		0.4	12.157	
Chlorobenzene	0.9	0.959	0.931	1.097	0.948	0.945	0.943		0.9	6.5566	
1,1,1,2-Tetrachloroethane	0.276	0.297	0.324	0.366	0.33	0.338	0.336		0.3	9.0233	
Ethylbenzene	0.503	0.507	0.508	0.617	0.527	0.525	0.523		0.5301	7.4209	

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m-,p-Xylene	0.618	0.623	0.633	0.755	0.65	0.643	0.637	0.6505	7.28
o-Xylene	0.567	0.593	0.604	0.707	0.615	0.62	0.624	0.6187	7.0399
Styrene	0.882	0.944	0.99	1.173	1.033	1.045	1.058	1.0179	9.0729
Bromoform	0.117	0.132	0.151	0.166	0.166	0.175	0.19	0.1568	16.123 LR,F
Isopropylbenzene	1.499	1.56	1.509	1.925	1.658	1.664	1.667	1.6518	8.2217
1,4-Dichlorobenzene-d4	ISTD								
1,1,2,2-Tetrachloroethane	0.503	0.551	0.591	0.602	0.559	0.548	0.57	0.5605	5.7326
p-Bromofluorobenzene			1.11	0.969	0.917	0.887	0.838	0.9443	11.027
1,2,3-Trichloropropane	0.147	0.172	0.187	0.188	0.175	0.174	0.179	0.1747	7.8843
trans-1,4-Dichloro-2-Butene	0.167	0.139	0.199	0.154	0.163	0.156	0.167	0.1635	11.249
n-Propylbenzene	3.268	3.401	3.463	4.233	3.574	3.624	3.55	3.5076	8.5977
Bromobenzene	0.713	0.743	0.748	0.859	0.756	0.765	0.767	0.7644	5.9361
1,3,5-Trimethylbenzene	2.454	2.466	0.942	2.969	2.549	2.589	2.553	2.3606	27.496 LR,F
2-Chlorotoluene	2.043	2.009	2.149	2.56	2.141	2.141	2.188	2.1758	8.3218
4-Chlorotoluene	1.953	2.1	2.034	2.396	2.079	2.159	2.061	2.1119	6.6496
a-Methylstyrene	1.467	1.222	1.432	1.578	1.491	1.482	1.515	1.4552	7.7192
tert-Butylbenzene	2.325	2.379	2.431	2.914	2.496	2.521	2.52	2.5124	7.6494
1,2,4-Trimethylbenzene	3.026	2.811	2.691	3.072	2.597	2.622	2.57	2.7699	7.4642
sec-Butylbenzene	3.198	3.236	3.315	4.045	3.409	3.455	3.397	3.4364	8.2724
p-Isopropyltoluene	2.914	2.874	2.984	3.672	3.105	3.161	3.114	3.1176	8.5648
1,3-Dichlorobenzene	1.461	1.507	1.518	1.779	1.528	1.56	1.553	1.5578	6.5952
1,4-Dichlorobenzene	1.54	1.599	1.586	1.797	1.561	1.577	1.563	1.6032	5.4492
n-Butylbenzene	2.486	2.452	2.538	3.12	2.632	2.662	2.626	2.6451	8.4585
1,2-Dichlorobenzene	1.331	1.349	1.372	1.564	1.362	1.384	1.389	1.393	5.5888
1,2-Dibromo-3-Chloropropane	0.091	0.108	0.123	0.12	0.121	0.12	0.129	0.1159	10.912
1,2,4-Trichlorobenzene	0.893	0.885	0.926	1.068	0.934	0.946	0.954	0.9437	6.4097
Hexachlorobutadiene	0.429	0.452	0.481	0.595	0.49	0.513	0.512	0.4959	10.729
Naphthalene	2.212	2.075	1.959	2.028	1.894	1.779	1.919	1.9809	7.0539
1,2,3-Trichlorobenzene	0.788	0.802	0.814	0.929	0.827	0.83	0.842	0.8332	5.5331

Fri Jun 25 09:16:52 1999

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AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8260B
AAB#: WG60129
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS_6
Initial Calibration ID: HPMS6 24-JUN-99
2nd Source ID: ALT HPMS6 24-JUN-99

Analyte	% D	Q
Chloromethane *	-9.71	
1,1-DCA *	9.75	
Bromoform *	-8.22	
Chlorobenzene *	7.33	
1,1,2,2-TCA *	6.11	
1,1-DCE #	16.64	
Chloroform #	10.55	
1,2-DCP #	7.82	
Toluene #	8.31	
Ethylbenzene #	8.63	
Vinyl chloride #	6.30	
1,1,1,2-Tetrachloroethane	9.31	
1,1,1-TCA	12.79	
1,1,2-TCA	7.18	
1,1-Dichloropropene	22.91	
1,2,3-Trichlorobenzene	6.69	
1,2,3-Trichloropropane	10.87	
1,2,4-Trichlorobenzene	4.57	
1,2,4-Trimethylbenzene	0.85	
1,2-DCA	7.37	
1,2-DCB	6.32	
1,2-Dibromo-3-chloropropane	9.12	
1,2-EDB	9.75	
1,3,5-Trimethylbenzene	6.95	
1,3-DCB	5.47	
1,3-Dichloropropane	7.78	
1,4-DCB	2.85	
1-Chlorohexane	8.62	
2,2-Dichloropropane	9.79	
2-Chlorotoluene	6.71	
4-Chlorotoluene	5.12	
Benzene	7.93	
Bromobenzene	5.34	
Bromochloromethane	14.78	
Bromodichloromethane	10.22	
Bromomethane	33.44	*
Carbon Tetrachloride	13.46	
Chloroethane	5.56	
Cis-1,2-DCE	8.66	
Cis-1,3-Dichloropropene	10.55	
Dibromochloromethane	11.85	
Dibromomethane	10.55	
Dichlorodifluoromethane	21.81	
Hexachlorobutadiene	8.28	
Isopropylbenzene	7.07	
m+p-Xylene	7.30	
Methylene chloride	12.87	
n-Butylbenzene	7.74	
n-Propylbenzene	8.13	
Naphthalene	2.61	
o-Xylene	7.19	
Sec-Butylbenzene	5.07	
Styrene	9.87	
TCE	9.55	
Tert-butylbenzene	6.85	
Tetrachloroethene	9.21	
Trans-1,2-DCE	18.56	
Trans-1,3-Dichloropropene	7.00	
Trichlorofluoromethane	-36.08	*

Comments:

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062799\6M14274.D
Acq On : 27 Jun 1999 14:24
Sample : WG60129-02 50 PPB STD M8260 5G/5ML
Misc : SOLID,1
MS Integration Params: rteint.p

Vial: 2
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	50.000	54.099	-8.2	99	0.00
3	P	Chloromethane	50.000	50.252	-0.5	105	0.00
4	C	Vinyl Chloride	50.000	58.408	-16.8	120	0.00
5	T	Bromomethane	50.000	63.176	-26.4#	121	-0.01
6	T	Chloroethane	50.000	58.757	-17.5	108	0.00
7	T	Trichlorofluoromethane	50.000	37.431	25.1#	65	0.00
8	T	Isoprene	50.000	53.059	-6.1	92	0.00
9	T	Acrolein	100.000	5.054	94.9#	6	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	53.642	-7.3	99	0.00
11	T	Acetone	50.000	63.268	-26.5#	104	0.00
12	C	1,1-Dichloroethene	50.000	49.362	1.3	87	0.00
13	T	Dimethyl Sulfide	50.000	54.513	-9.0	94	0.00
14	T	Iodomethane	50.000	36.417	27.2#	67	0.00
15	T	Methylene Chloride	50.000	48.324	3.4	88	0.00
16	T	Carbon Disulfide	50.000	48.572	2.9	91	0.00
17	T	Acrylonitrile	50.000	55.850	-11.7	100	0.00
18	T	Methyl Tert Butyl Ether	50.000	52.883	-5.8	96	0.00
19	T	trans-1,2-Dichloroethene	50.000	49.606	0.8	88	0.00
20	T	n-Hexane	50.000	49.111	1.8	95	0.00
21	T	Vinyl Acetate	50.000	42.191	15.6	74	0.00
22	P	1,1-Dichloroethane	50.000	50.271	-0.5	90	0.00
23	T	2-Butanone	50.000	53.928	-7.9	101	0.00
24	T	2,2-Dichloropropane	50.000	48.273	3.5	82	0.00
25	T	cis-1,2-Dichloroethene	50.000	50.837	-1.7	89	0.00
26	C	Chloroform	50.000	52.612	-5.2	94	0.00
27	T	Bromochloromethane	50.000	54.136	-8.3	94	0.00
28	S	Dibromofluoromethane	50.000	46.007	8.0	90	0.00
29	T	1,1,1-Trichloroethane	50.000	51.099	-2.2	88	0.00
30	T	Cyclohexane	50.000	52.126	-4.3	92	0.00
31	T	1,1-Dichloropropene	50.000	53.214	-6.4	94	0.00
32	T	Carbon Tetrachloride	50.000	49.186	1.6	82	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.883	-3.8	96	0.00
34	T	1,2-Dichloroethane	50.000	54.957	-9.9	100	0.00
35	T	Benzene	50.000	48.678	2.6	88	0.00
36	T	Trichloroethene	50.000	51.527	-3.1	91	0.00
37	C	1,2-Dichloropropane	50.000	49.444	1.1	88	0.00
38	T	Bromodichloromethane	50.000	52.003	-4.0	89	0.00
39	T	Dibromomethane	50.000	54.387	-8.8	98	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	58.432	-16.9	104	0.00
41	T	4-Methyl-2-Pentanone	50.000	54.331	-8.7	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062799\6M14274.D Vial: 2
Acq On : 27 Jun 1999 14:24 Operator: CMS
Sample : WG60129-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	50.468	-0.9	87	0.00
43	T	Dimethyl Disulfide	50.000	28.977	42.0#	53	0.00
44	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
45	S	Toluene-d8	50.000	46.354	7.3	89	0.00
46	C	Toluene	50.000	49.323	1.4	92	0.00
47	T	Ethyl Methacrylate	50.000	53.072	-6.1	97	0.00
48	T	trans-1,3-Dichloropropene	50.000	52.576	-5.2	92	0.00
49	T	1,1,2-Trichloroethane	50.000	50.410	-0.8	95	0.00
50	T	2-Hexanone	50.000	51.751	-3.5	104	0.00
51	T	1,3-Dichloropropane	50.000	50.359	-0.7	95	0.00
52	T	Tetrachloroethene	50.000	50.293	-0.6	92	0.00
53	T	Dibromochloromethane	50.000	51.391	-2.8	89	0.00
54	T	1,2-Dibromoethane	50.000	51.442	-2.9	95	0.00
55	T	1-Chlorohexane	50.000	51.030	-2.1	91	0.00
56	P	Chlorobenzene	50.000	48.904	2.2	92	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	48.704	2.6	86	0.00
58	C	Ethylbenzene	50.000	48.570	2.9	91	0.00
59	T	m-,p-Xylene	100.000	97.658	2.3	91	0.00
60	T	o-Xylene	50.000	49.508	1.0	91	0.00
61	T	Styrene	50.000	50.302	-0.6	91	0.00
62	P	Bromoform	50.000	43.367	13.3	85	0.00
63	T	Isopropylbenzene	50.000	50.414	-0.8	93	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	49.920	0.2	98	0.00
66	S	p-Bromofluorobenzene	50.000	45.949	8.1	91	0.00
67	T	1,2,3-Trichloropropane	50.000	53.841	-7.7	104	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	50.105	-0.2	101	0.00
69	T	n-Propylbenzene	50.000	48.880	2.2	93	0.00
70	T	Bromobenzene	50.000	48.088	3.8	92	0.00
71	T	1,3,5-Trimethylbenzene	50.000	48.851	2.3	93	0.00
72	T	2-Chlorotoluene	50.000	48.149	3.7	94	0.00
73	T	4-Chlorotoluene	50.000	49.187	1.6	92	0.00
74	T	a-Methylstyrene	50.000	49.853	0.3	94	0.00
75	T	tert-Butylbenzene	50.000	49.291	1.4	94	0.00
76	T	1,2,4-Trimethylbenzene	50.000	45.245	9.5	92	0.00
77	T	sec-Butylbenzene	50.000	48.738	2.5	93	0.00
78	T	p-Isopropyltoluene	50.000	48.975	2.0	93	0.00
79	T	1,3-Dichlorobenzene	50.000	48.075	3.8	92	0.00
80	T	1,4-Dichlorobenzene	50.000	47.167	5.7	92	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\062799\6M14274.D Vial: 2
Acq On : 27 Jun 1999 14:24 Operator: CMS
Sample : WG60129-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	47.732	4.5	91	0.00
82	T	1,2-Dichlorobenzene	50.000	47.961	4.1	92	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	51.251	-2.5	95	0.00
84	T	1,2,4-Trichlorobenzene	50.000	47.228	5.5	90	0.00
85	T	Hexachlorobutadiene	50.000	47.911	4.2	89	0.00
86	T	Naphthalene	50.000	47.812	4.4	102	0.00
87	T	1,2,3-Trichlorobenzene	50.000	47.265	5.5	91	0.00

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60129-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.0002	0.003	
1,1,1-Trichloroethane	0.00018	0.004	
1,1,2,2-Tetrachloroethane	0.00012	0.002	
1,1,2-Trichloroethane	0.00017	0.005	
1,1-Dichloroethane	0.00015	0.002	
1,1-Dichloroethene	0.00012	0.006	
1,1-Dichloropropene	0.000076	0.005	
1,2,3-Trichlorobenzene	0.00023	0.002	
1,2,3-Trichloropropane	0.00019	0.02	
1,2,4-Trichlorobenzene	0.00027	0.002	
1,2,4-Trimethylbenzene	0.00015	0.007	
1,2-Dibromo-3-chloropropane	0.00035	0.01	
1,2-Dibromoethane	0.00012	0.003	
1,2-Dichlorobenzene	0.00015	0.002	
1,2-Dichloroethane	0.00016	0.003	
1,2-Dichloropropane	0.00097	0.002	
1,3,5-Trimethylbenzene	0.000092	0.003	
1,3-Dichlorobenzene	0.00019	0.006	
1,3-Dichloropropane	0.00012	0.002	
1,4-Dichlorobenzene	0.00015	0.002	
1-Chlorohexane	0.000044	0.003	
2,2-Dichloropropane	0.00012	0.02	
2-Chlorotoluene	0.00014	0.002	
4-Chlorotoluene	0.00014	0.003	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60129-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
Benzene	0.00012	0.002	
Bromobenzene	0.00015	0.002	
Bromochloromethane	0.00011	0.002	
Bromodichloromethane	0.00012	0.004	
Bromoform	0.00016	0.006	
Bromomethane	0.00035	0.005	
Carbon tetrachloride	0.00017	0.01	
Chlorobenzene	0.00018	0.002	
Chloroethane	0.00046	0.005	
Chloroform	0.00016	0.002	
Chloromethane	0.00034	0.007	
Dibromochloromethane	0.00014	0.003	
Dibromomethane	0.00015	0.01	
Dichlorodifluoromethane	0.00031	0.005	
Ethylbenzene	0.00014	0.003	
Hexachlorobutadiene	0.00026	0.005	
Isopropylbenzene	0.000075	0.008	
Methylene chloride	0.00071	0.002	
Naphthalene	0.0009	0.002	
Styrene	0.000074	0.002	
Tetrachloroethene	0.00021	0.007	
Toluene	0.00074	0.005	
Trichloroethene	0.00018	0.01	
Trichlorofluoromethane	0.00028	0.004	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60129-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
Vinyl chloride	0.00039	0.009	
cis-1,2-Dichloroethene	0.000094	0.006	
cis-1,3-Dichloropropene	0.000097	0.005	
m-,p-Xylene	0.0002	0.005	
n-Butylbenzene	0.00012	0.005	
n-Propylbenzene	0.00012	0.002	
o-Xylene	0.0001	0.005	
p-Isopropyltoluene	0.000084	0.006	
sec-Butylbenzene	0.00011	0.007	
tert-Butylbenzene	0.00012	0.007	
trans-1,2-Dichloroethene	0.000084	0.003	
trans-1,3-Dichloropropene	0.0001	0.005	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60129-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	.02	0.0187	93.5	62 - 108	
1,1,1-Trichloroethane	.02	0.0217	108.5	65 - 135	
1,1,2,2-Tetrachloroethane	.02	0.0194	97	64 - 135	
1,1,2-Trichloroethane	.02	0.0203	101.5	65 - 135	
1,1-Dichloroethane	.02	0.0211	105.5	62 - 135	
1,1-Dichloroethene	.02	0.0223	111.5	65 - 135	
1,1-Dichloropropene	.02	0.0244	122	65 - 135	
1,2,3-Trichlorobenzene	.02	0.0199	99.5	65 - 147	
1,2,3-Trichloropropane	.02	0.0215	107.5	65 - 135	
1,2,4-Trichlorobenzene	.02	0.0195	97.5	65 - 145	
1,2,4-Trimethylbenzene	.02	0.0188	94	65 - 135	
1,2-Dibromo-3-chloropropane	.02	0.0187	93.5	49 - 135	
1,2-Dibromoethane	.02	0.0204	102	65 - 135	
1,2-Dichlorobenzene	.02	0.0198	99	65 - 135	
1,2-Dichloroethane	.02	0.0225	112.5	58 - 137	
1,2-Dichloropropane	.02	0.0199	99.5	60 - 135	
1,3,5-Trimethylbenzene	.02	0.0201	100.5	62 - 135	
1,3-Dichlorobenzene	.02	0.0198	99	65 - 135	
1,3-Dichloropropane	.02	0.0202	101	65 - 135	
1,4-Dichlorobenzene	.02	0.0193	96.5	65 - 135	
1-Chlorohexane	.02	0.021	105	65 - 135	
2,2-Dichloropropane	.02	0.0206	103	65 - 135	
2-Chlorotoluene	.02	0.0202	101	63 - 135	
4-Chlorotoluene	.02	0.0199	99.5	64 - 135	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

LCS ID: WG60129-04 Units: mg/kg Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Benzene	.02	0.0202	101	65 - 135	
Bromobenzene	.02	0.0196	98	65 - 135	
Bromochloromethane	.02	0.0222	111	63 - 135	
Bromodichloromethane	.02	0.0204	102	65 - 135	
Bromoform	.02	0.0143	71.5	65 - 135	
Bromomethane	.02	0.0296	148	62 - 135	*
Carbon tetrachloride	.02	0.020	100	52 - 135	
Chlorobenzene	.02	0.0204	102	65 - 135	
Chloroethane	.02	0.0226	113	55 - 135	
Chloroform	.02	0.0222	111	64 - 135	
Chloromethane	.02	0.0188	94	65 - 135	
Dibromochloromethane	.02	0.0187	93.5	63 - 135	
Dibromomethane	.02	0.0219	109.5	59 - 137	
Dichlorodifluoromethane	.02	0.0233	116.5	65 - 135	
Ethylbenzene	.02	0.0206	103	65 - 135	
Hexachlorobutadiene	.02	0.0204	102	65 - 135	
Isopropylbenzene	.02	0.0203	101.5	65 - 135	
Methylene chloride	.02	0.0213	106.5	65 - 135	
Naphthalene	.02	0.0201	100.5	65 - 135	
Styrene	.02	0.0205	102.5	65 - 135	
Tetrachloroethene	.02	0.0207	103.5	61 - 135	
Toluene	.02	0.0208	104	64 - 135	
Trichloroethene	.02	0.0213	106.5	61 - 135	
Trichlorofluoromethane	.02	0.0137	68.5	57 - 135	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60129-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Vinyl chloride	.02	0.0254	127	36 - 144	
cis-1,2-Dichloroethene	.02	0.0208	104	65 - 135	
cis-1,3-Dichloropropene	.02	0.020	100	64 - 135	
m-,p-Xylene	.04	0.0405	101.3	65 - 135	
n-Butylbenzene	.02	0.0201	100.5	65 - 135	
n-Propylbenzene	.02	0.0202	101	65 - 135	
o-Xylene	.02	0.0201	100.5	65 - 135	
p-Isopropyltoluene	.02	0.0194	97	65 - 135	
sec-Butylbenzene	.02	0.0195	97.5	65 - 135	
tert-Butylbenzene	.02	0.020	100	65 - 135	
trans-1,2-Dichloroethene	.02	0.0227	113.5	65 - 135	
trans-1,3-Dichloropropene	.02	0.0189	94.5	56 - 135	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8260B AAB#: WG60129

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0303BA	19-Jun-99	21-Jun-99	N/A	14	N/A	28-Jun-99	14	9	
S13SUN0303BC	19-Jun-99	21-Jun-99	N/A	14	N/A	28-Jun-99	14	9	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 236

Workgroup #(s) WG59939
Analysis Date 6-24-99

Analyst CMS
Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: 6/25/99 cms

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14194	NA	1	WG59939-01 BFB 50 PPM STD	5ml	NA	✓	1	NA	S-46-7	NA	0730
6M14195		2	-02 50 PPB STD M8260	5g/5ml		✓ (SOIL)			VSTD0624*	S-46-43 S-46-44	—
6M14196		3	-03 20			✓					—
6M14197		4	-04 10			✓					—
6M14198		5	-05 5			✓					—
6M14199		6	-06 2			✓					—
6M14200		7	-07 1			✓					—
6M14201		8	-08 100			✓					—
6M14202		9	-09 200			✓					—
6M14203		10	SYSTEM BLANK			✓			NA		—
6M14204		11	WG59939-10 20 PPB ALT SRC STD			✓			QC0624*		1355

*VSTD0624 = QC0624

Calibration STD's S-46-41/S-46-42/S-47-9/S-47-10/S-46-21/S-46-16 Alternate Source/QC STD's S-46-40/S-46-29/S-46-30/S-47-7

Comments:

Reviewed By: _____

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
CO = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

507 237

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60129

Analysis Date 6-27-99

Analyst CMS

Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: 6/28/99 CMS

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14273	NA	1	WG60129-01 BFB 50PPM STD	5ml	NA	✓	1	NA	S-47-17	NA	1353
6M14274		2	-02 50PPB STD MB260	5g/5ml		✓			VSTD0624	S-48-43 S-46-44	—
6M14275		3	-03 VBLK0627 SOIL BLANK			✓			NA		—
6M14276		4	-04 20PPB VOA QC SPIKE			✓			QC0624		—
6M14277		5	L9906463-02 VERSAR MB260			✓			NA		—
6M14278		6	L9906513-14 FP&M B26AF98			✓					—
6M14279		7	-15			✓					—
6M14280		8	-16 MS			✓			QC0624		—
6M14281		9	-17 MSD			✓					—
6M14282		10	-04			✓			NA		—
6M14283		11	-05			✓					—

Calibration STD's VSTD0624 Alternate Source/QC STD's QC0624 Reviewed By: ___

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60129
Analysis Date 6-27-99

Analyst CMS
Instrument HPMS6

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14284	NA	12	L9906513-06 FP&M 826AF98	5g/5ml	NA	✓	1	NA	NA	5-46-43 6-46-44	–
6M14285	|	13	-07 | |	|	|	✓	|	|	|	|	–
6M14286	|	14	-08 | |	|	|	✓	|	|	|	|	–
6M14287	|	15	-09 | |	1g/5ml	5	✓	|	|	|	|	–
6M14288	|	16	-10 | |	5g/5ml	NA	✓	|	|	|	|	–
6M14289	|	17	-11 | |	|	|	✓	|	|	|	|	–
6M14290	|	18	-12 | |	|	|	✓	|	|	|	|	–
6M14291	|	19	-13 | |	|	|	✓	|	|	|	|	–
6M14292	|	20	L9906512-01 FP&M 826AF98	|	|	✓	|	|	|	|	–
6M14293	|	21	-02 | |	|	|	|	|	|	|	|	0131
6M14294	⊥	22	-03 ⊥ ⊥	⊥	⊥	MT: RR	⊥	⊥	⊥	⊥	0205
6M14295	–	–	BAKEOUT	–	–	–	–	–	–	–	–

6/28/99 CMS

Calibration STD's VSTD0624 Alternate Source/QC STD's QC0624 Reviewed By: _____

1 Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

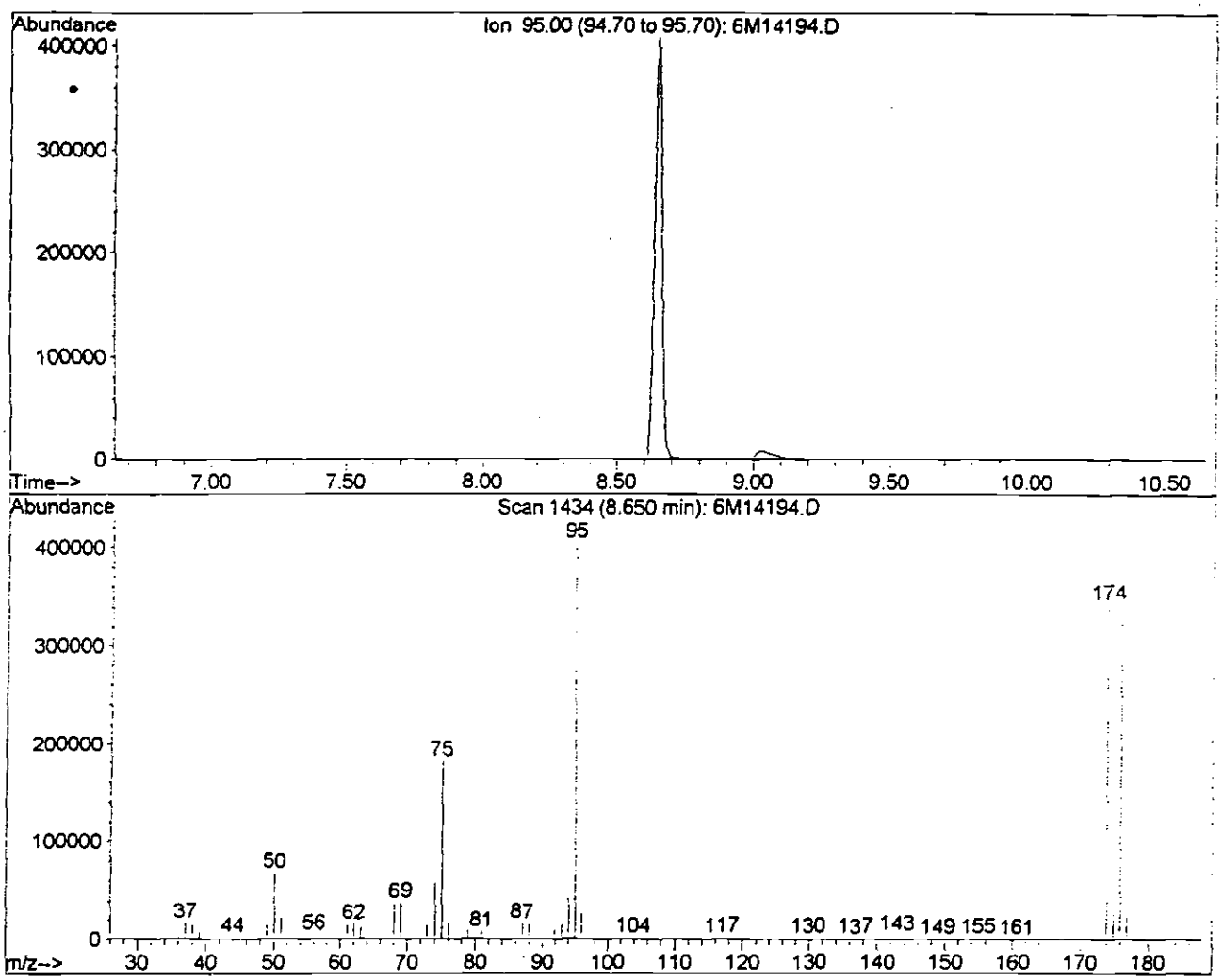
SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

BFB

Data File : C:\HPCHEM\1\DATA\062499\6M14194.D
Acq On : 24 Jun 1999 7:30
Sample : WG59939-01 BFB 50 PPM STD S-46-7 10UL/50
Misc : SOLID,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99

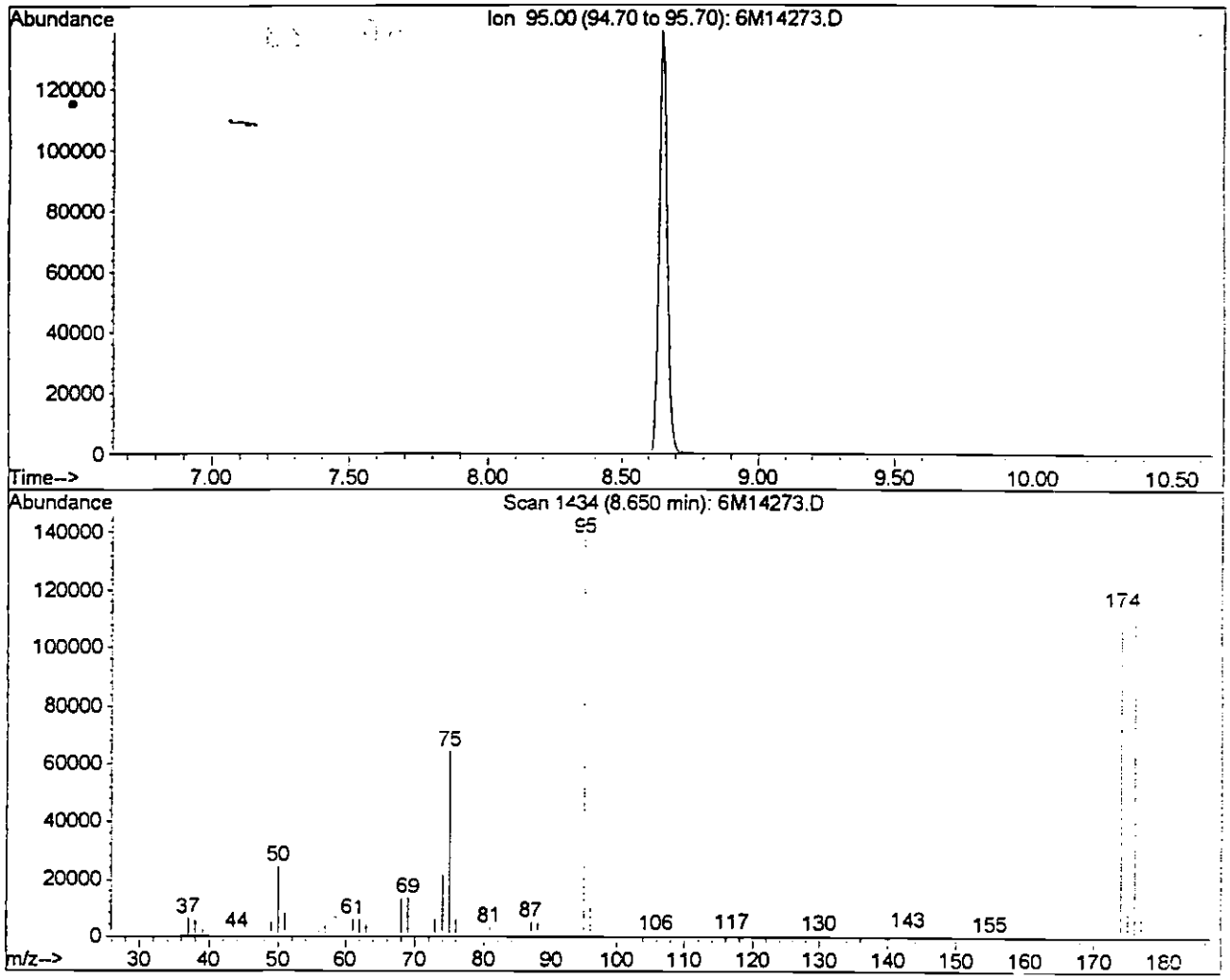
Vial: 1
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00



Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	67680	PASS
75	95	30	60	44.4	181376	PASS
95	95	100	100	100.0	408448	PASS
96	95	5	9	6.5	26616	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.0	343232	PASS
175	174	5	9	7.5	25584	PASS
176	174	95	101	98.3	337536	PASS
177	176	5	9	6.7	22600	PASS

Data File : C:\HPCHEM\1\DATA\062799\6M14273.D Vial: 1
Acq On : 27 Jun 1999 13:53 Operator: CMS
Sample : WG60129-01 BFB 50 PPM STD S-47-14 10UL/5 Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99



Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	24256	PASS
75	95	30	60	46.3	64360	PASS
95	95	100	100	100.0	139136	PASS
96	95	5	9	6.9	9649	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.2	112912	PASS
175	174	5	9	7.2	8165	PASS
176	174	95	101	95.8	108224	PASS
177	176	5	9	6.5	7039	PASS

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AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : **8260B**

AAB # : **WG60143**

Lab Name : **Kemron Environmental Services**

Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB**

Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SUN0102BA	L9906512-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **13-JUL-99**

Title: **Laboratory Manager**

Calibration Table Report
Method: 8260BSL.M
Title: Method 8260B_SOIL - ICAL 06/24/99
Last Calibration: Fri Jun 25 08:57:13 1999

HPMS 6

Calibration Files

Compound	1 (BA14200.D)	2 (BA14199.D)	5 (BA14198.D)	10 (BA14197.D)	20 (BA14196.D)	50 (BA14195.D)	100 (BA14201.D)	200 (BA14202.D)	Avg	%RSD	
Fluorobenzene	ISTD										
Dichlorodifluoromethane	0.239	0.225	0.235	0.277	0.247	0.238	0.249		0.244	6.708	
Chloromethane	0.196	0.172	0.163	0.183	0.166	0.145	0.169		0.170	9.444	
Vinyl Chloride	0.112	0.115	0.099	0.124	0.103	0.090	0.084		0.104	13.627	
Bromomethane	0.085	0.093	0.091	0.095	0.090	0.083	0.091		0.090	4.601	
Chloroethane	0.079	0.078	0.090	0.098	0.089	0.084	0.090		0.087	7.962	
Trichlorofluoromethane	0.243	0.241	0.370	0.291	0.315	0.389	0.255		0.300	20.071	QR,F
Isoprene	0.336	0.278	0.328	0.405	0.369	0.350	0.373		0.350	11.538	
Acrolein			0.005	0.009	0.011	0.011	0.006		0.008	32.254	QR,F
1,1,2-Trichloro-1,2,2-Trifluoroet	0.242	0.228	0.233	0.286	0.248	0.238	0.252		0.247	7.737	
Acetone			0.121	0.091	0.074	0.057	0.054	0.052	0.075	36.432	LR,F
1,1-Dichloroethene	0.188	0.205	0.207	0.255	0.219	0.219	0.224		0.217	9.580	
Dimethyl Sulfide	0.184	0.190	0.212	0.240	0.236	0.228	0.251		0.220	11.652	
Iodomethane	0.150	0.150	0.179	0.221	0.225	0.237	0.249		0.202	20.449	LR,F
Methylene Chloride	0.388	0.337	0.277	0.277	0.235	0.220	0.225		0.280	22.298	LR,F
Carbon Disulfide	1.003	0.746	0.788	0.934	0.838	0.802	0.825		0.848	10.588	
Acrylonitrile	0.045	0.054	0.059	0.059	0.063	0.057	0.062	0.062	0.058	10.140	
Methyl Tert Butyl Ether	0.553	0.534	0.572	0.577	0.578	0.553	0.570		0.564	3.033	
trans-1,2-Dichloroethene	0.217	0.230	0.231	0.273	0.237	0.240	0.242		0.239	7.307	
n-Hexane	0.510	0.383	0.386	0.456	0.411	0.387	0.399		0.419	11.257	
Vinyl Acetate	0.292	0.295	0.339	0.329	0.342	0.330	0.346		0.325	6.807	
1,1-Dichloroethane	0.376	0.388	0.386	0.460	0.397	0.397	0.403		0.401	6.803	
2-Butanone			0.221	0.086	0.087	0.077	0.082	0.081	0.106	53.577	LR,F
2,2-Dichloropropane	0.305	0.314	0.332	0.410	0.354	0.366	0.366		0.349	10.254	
cis-1,2-Dichloroethene	0.229	0.249	0.250	0.302	0.261	0.264	0.267		0.260	0.606	
Chloroform	0.378	0.401	0.400	0.465	0.408	0.411	0.415		0.411	6.424	
Bromochloromethane	0.086	0.110	0.107	0.126	0.116	0.114	0.118		0.111	11.236	
Dibromofluoromethane			0.340	0.294	0.257	0.245	0.244	0.230	0.270	14.795	
1,1,1-Trichloroethane	0.332	0.356	0.355	0.445	0.387	0.391	0.393		0.380	9.628	
Cyclohexane	0.430	0.335	0.397	0.490	0.449	0.430	0.442		0.425	11.372	
1,1-Dichloropropene	0.288	0.290	0.296	0.365	0.312	0.314	0.320		0.312	8.557	
Carbon Tetrachloride	0.262	0.284	0.298	0.376	0.329	0.340	0.344		0.319	12.432	
1,2-Dichloroethane-d4			0.276	0.243	0.229	0.226	0.216		0.238	9.912	
1,2-Dichloroethane	0.256	0.276	0.277	0.302	0.270	0.268	0.271		0.274	5.169	
Benzene	0.909	0.925	0.916	1.088	0.941	0.941	0.946		0.952	6.458	
Trichloroethene	0.261	0.279	0.277	0.335	0.287	0.290	0.292		0.289	7.911	
1,2-Dichloropropane	0.200	0.216	0.213	0.248	0.219	0.219	0.225		0.220	6.657	
Bromodichloromethane	0.253	0.262	0.277	0.318	0.287	0.295	0.303		0.285	8.017	
Dibromomethane	0.103	0.112	0.121	0.129	0.117	0.115	0.121		0.117	7.022	
2-Chloroethyl Vinyl Ether	0.056	0.068	0.082	0.082	0.080	0.076	0.086		0.076	13.711	
4-Methyl-2-Pentanone			0.063	0.063	0.067	0.063	0.069	0.069	0.066	4.554	
cis-1,3-Dichloropropene	0.208	0.305	0.326	0.365	0.331	0.339	0.346		0.3207	7.7471	
Dimethyl Disulfide	0.089	0.098	0.152	0.161	0.177	0.19	0.2		0.1502	29.189	LR,F
Chlorobenzene-d5	ISTD										
Toluene-d8			1.523	1.311	1.241	1.21	1.125		1.2852	11.724	
Toluene	1.352	1.356	1.357	1.626	1.398	1.397	1.395		1.4114	6.8529	
Ethyl Methacrylate	0.324	0.298	0.353	0.339	0.36	0.345	0.371		0.3415	7.1297	
trans-1,3-Dichloropropene	0.332	0.358	0.392	0.445	0.413	0.422	0.426		0.3987	10.177	
1,1,2-Trichloroethane	0.225	0.243	0.244	0.264	0.238	0.238	0.241		0.2418	4.7945	
2-Hexanone			0.195	0.167	0.18	0.161	0.175	0.174	0.1754	6.6223	
1,3-Dichloropropane	0.381	0.409	0.407	0.439	0.401	0.399	0.407		0.4064	4.2991	
Tetrachloroethene	0.282	0.309	0.318	0.383	0.327	0.326	0.324		0.3342	9.4399	
Dibromochloromethane	0.229	0.253	0.269	0.304	0.292	0.3	0.313		0.28	10.921	
1,2-Dibromoethane	0.223	0.236	0.251	0.269	0.251	0.248	0.255		0.2476	5.9307	
2-Chlorohexene	0.472	0.381	0.461	0.568	0.517	0.508	0.523		0.49	12.157	
Chlorobenzene	0.9	0.959	0.931	1.097	0.948	0.945	0.943		0.9604	6.5566	
1,1,1,2-Tetrachloroethane	0.276	0.297	0.324	0.366	0.33	0.338	0.336		0.3239	9.0233	
Ethylbenzene	0.503	0.507	0.508	0.617	0.527	0.525	0.523		0.5301	7.4288	

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m-,p-Xylene	0.618	0.623	0.633	0.755	0.65	0.643	0.632	0.6505	7.28
o-Xylene	0.567	0.593	0.604	0.707	0.615	0.62	0.624	0.6187	7.0399
Styrene	0.882	0.944	0.99	1.173	1.033	1.045	1.058	1.0179	9.0729
Bromoform	0.117	0.132	0.151	0.166	0.166	0.175	0.19	0.1560	16.123 LR,F
Isopropylbenzene	1.499	1.56	1.589	1.925	1.658	1.664	1.667	1.6618	8.2217
1,4-Dichlorobenzene-d4	ISTD								
1,1,2,2-Tetrachloroethane	0.503	0.551	0.591	0.602	0.559	0.548	0.57	0.5605	5.7326
p-Bromofluorobenzene			1.11	0.969	0.917	0.887	0.838	0.9443	11.027
1,2,3-Trichloropropane	0.147	0.172	0.187	0.188	0.175	0.174	0.179	0.1747	7.8843
trans-1,4-Dichloro-2-Butene	0.167	0.139	0.199	0.154	0.163	0.156	0.167	0.1635	11.249
n-Propylbenzene	3.268	3.401	3.463	4.233	3.574	3.624	3.55	3.5076	8.5977
Bromobenzene	0.713	0.743	0.748	0.859	0.756	0.765	0.767	0.7644	5.9361
1,3,5-Trimethylbenzene	2.454	2.466	0.942	2.969	2.549	2.589	2.553	2.3606	27.496 LR,F
2-Chlorotoluene	2.043	2.009	2.149	2.56	2.141	2.141	2.188	2.1758	8.3218
4-Chlorotoluene	1.953	2.1	2.034	2.396	2.079	2.159	2.061	2.1119	6.6496
a-Methylstyrene	1.467	1.222	1.432	1.578	1.491	1.482	1.515	1.4552	7.7192
tert-Butylbenzene	2.325	2.379	2.431	2.914	2.496	2.521	2.52	2.5124	7.6494
1,2,4-Trimethylbenzene	3.026	2.811	2.691	3.072	2.597	2.622	2.57	2.7699	7.4642
sec-Butylbenzene	3.198	3.236	3.315	4.045	3.409	3.455	3.397	3.4364	8.2724
p-Isopropyltoluene	2.914	2.874	2.984	3.672	3.105	3.161	3.114	3.1176	8.5648
1,3-Dichlorobenzene	1.461	1.507	1.518	1.779	1.528	1.56	1.553	1.5578	6.5952
1,4-Dichlorobenzene	1.54	1.599	1.586	1.797	1.561	1.577	1.563	1.6032	5.4492
n-Butylbenzene	2.486	2.452	2.538	3.12	2.632	2.662	2.626	2.6451	8.4585
1,2-Dichlorobenzene	1.331	1.349	1.372	1.564	1.362	1.384	1.309	1.393	5.5888
1,2-Dibromo-3-Chloropropane	0.091	0.108	0.123	0.12	0.121	0.12	0.129	0.1159	10.912
1,2,4-Trichlorobenzene	0.893	0.885	0.926	1.068	0.934	0.946	0.954	0.9437	6.4097
Hexachlorobutadiene	0.429	0.452	0.481	0.595	0.49	0.513	0.512	0.4959	10.729
Naphthalene	2.212	2.075	1.959	2.028	1.894	1.779	1.919	1.9809	7.0539
1,2,3-Trichlorobenzene	0.788	0.802	0.814	0.929	0.827	0.83	0.842	0.8332	5.5331

Fri Jun 25 09:16:52 1999

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AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8260B
AAB#: WG60143
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS_6
Initial Calibration ID: HPMS6 24-JUN-99
2nd Source ID: ALT HPMS6 24-JUN-99

Analyte	% D	Q
Chloromethane *	-9.71	
1,1-DCA *	9.75	
Bromoform *	-8.22	
Chlorobenzene *	7.33	
1,1,2,2-TCA *	6.11	
1,1-DCE #	16.64	
Chloroform #	10.55	
1,2-DCP #	7.82	
Toluene #	8.31	
Ethylbenzene #	8.63	
Vinyl chloride #	6.30	
1,1,1,2-Tetrachloroethane	9.31	
1,1,1-TCA	12.79	
1,1,2-TCA	7.18	
1,1-Dichloropropene	22.91	
1,2,3-Trichlorobenzene	6.69	
1,2,3-Trichloropropane	10.87	
1,2,4-Trichlorobenzene	4.57	
1,2,4-Trimethylbenzene	0.85	
1,2-DCA	7.37	
1,2-DCB	6.32	
1,2-Dibromo-3-chloropropane	9.12	
1,2-EDB	9.75	
1,3,5-Trimethylbenzene	6.95	
1,3-DCB	5.47	
1,3-Dichloropropane	7.78	
1,4-DCB	2.85	
1-Chlorohexane	8.62	
2,2-Dichloropropane	9.79	
2-Chlorotoluene	6.71	
4-Chlorotoluene	5.12	
Benzene	7.93	
Bromobenzene	5.34	
Bromochloromethane	14.78	
Bromodichloromethane	10.22	
Bromomethane	33.44	*
Carbon Tetrachloride	13.46	
Chloroethane	5.56	
Cis-1,2-DCE	8.66	
Cis-1,3-Dichloropropene	10.55	
Dibromochloromethane	11.85	
Dibromomethane	10.55	
Dichlorodifluoromethane	21.81	
Hexachlorobutadiene	8.28	
Isopropylbenzene	7.07	
m+p-Xylene	7.30	
Methylene chloride	12.87	
n-Butylbenzene	7.74	
n-Propylbenzene	8.13	
Naphthalene	2.61	
o-Xylene	7.19	
Sec-Butylbenzene	5.07	
Styrene	9.87	
TCE	9.55	
Tert-butylbenzene	6.85	
Tetrachloroethene	9.21	
Trans-1,2-DCE	18.56	
Trans-1,3-Dichloropropene	7.00	
Trichlorofluoromethane	-36.08	*

Comments:

Forms by ChemSW™, Inc. 10/12/1997

507.245 Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\6M14297.D Vial: 2
Acq On : 28 Jun 1999 9:00 Operator: CMS
Sample : WG60143-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	52.412	-4.8	105	0.00
3	P	Chloromethane	50.000	46.478	7.0	107	0.00
4	C	Vinyl Chloride	50.000	54.485	-9.0	123	0.00
5	T	Bromomethane	50.000	58.128	-16.3	122	-0.01
6	T	Chloroethane	50.000	54.696	-9.4	110	0.00
7	T	Trichlorofluoromethane	50.000	36.318	27.4#	69	0.00
8	T	Isoprene	50.000	51.720	-3.4	99	0.00
9	T	Acrolein	100.000	3.958	96.0#	5	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	52.874	-5.7	107	0.00
11	T	Acetone	50.000	58.310	-16.6	105	0.00
12	C	1,1-Dichloroethene	50.000	47.969	4.1	92	0.00
13	T	Dimethyl Sulfide	50.000	52.483	-5.0	99	0.00
14	T	Iodomethane	50.000	35.609	28.8#	72	0.00
15	T	Methylene Chloride	50.000	47.663	4.7	95	0.00
16	T	Carbon Disulfide	50.000	47.106	5.8	97	0.00
17	T	Acrylonitrile	50.000	52.403	-4.8	103	0.00
18	T	Methyl Tert Butyl Ether	50.000	51.158	-2.3	102	0.00
19	T	trans-1,2-Dichloroethene	50.000	49.082	1.8	95	0.00
20	T	n-Hexane	50.000	47.770	4.5	101	0.00
21	T	Vinyl Acetate	50.000	47.408	5.2	91	0.00
22	P	1,1-Dichloroethane	50.000	50.007	-0.0	98	0.00
23	T	2-Butanone	50.000	52.075	-4.2	107	0.00
24	T	2,2-Dichloropropane	50.000	52.662	-5.3	98	0.00
25	T	cis-1,2-Dichloroethene	50.000	50.591	-1.2	97	0.00
26	C	Chloroform	50.000	51.753	-3.5	101	0.00
27	T	Bromochloromethane	50.000	53.488	-7.0	101	0.00
28	S	Dibromofluoromethane	50.000	45.466	9.1	98	0.00
29	T	1,1,1-Trichloroethane	50.000	53.135	-6.3	101	0.00
30	T	Cyclohexane	50.000	50.714	-1.4	98	0.00
31	T	1,1-Dichloropropene	50.000	51.984	-4.0	101	0.00
32	T	Carbon Tetrachloride	50.000	54.224	-8.4	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.667	0.7	101	0.00
34	T	1,2-Dichloroethane	50.000	53.033	-6.1	106	0.00
35	T	Benzene	50.000	48.275	3.5	95	0.00
36	T	Trichloroethene	50.000	51.381	-2.8	100	0.00
37	C	1,2-Dichloropropane	50.000	49.718	0.6	97	0.00
38	T	Bromodichloromethane	50.000	53.064	-6.1	100	0.00
39	T	Dibromomethane	50.000	52.330	-4.7	104	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	48.752	2.5	95	0.00
41	T	4-Methyl-2-Pentanone	50.000	51.916	-3.8	106	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\6M14297.D
Acq On : 28 Jun 1999 9:00
Sample : WG60143-02 50 PPB STD M8260 5G/5ML
Misc : SOLID,1
MS Integration Params: rteint.p

Vial: 2
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	52.173	-4.3	99	0.00
43	T	Dimethyl Disulfide	50.000	41.365	17.3	83	0.00
44	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
45	S	Toluene-d8	50.000	46.848	6.3	95	0.00
46	C	Toluene	50.000	49.798	0.4	99	0.00
47	T	Ethyl Methacrylate	50.000	52.563	-5.1	103	0.00
48	T	trans-1,3-Dichloropropene	50.000	54.537	-9.1	102	0.00
49	T	1,1,2-Trichloroethane	50.000	50.852	-1.7	102	0.00
50	T	2-Hexanone	50.000	50.145	-0.3	108	0.00
51	T	1,3-Dichloropropane	50.000	50.933	-1.9	102	0.00
52	T	Tetrachloroethene	50.000	51.273	-2.5	100	0.00
53	T	Dibromochloromethane	50.000	55.249	-10.5	102	0.00
54	T	1,2-Dibromoethane	50.000	52.395	-4.8	103	0.00
55	T	1-Chlorohexane	50.000	51.212	-2.4	97	0.00
56	P	Chlorobenzene	50.000	49.732	0.5	100	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	52.203	-4.4	98	0.00
58	C	Ethylbenzene	50.000	49.580	0.8	99	0.00
59	T	m-,p-Xylene	100.000	98.378	1.6	98	0.00
60	T	o-Xylene	50.000	50.131	-0.3	99	0.00
61	T	Styrene	50.000	51.215	-2.4	98	0.00
62	P	Bromoform	50.000	48.122	3.8	101	0.00
63	T	Isopropylbenzene	50.000	51.329	-2.7	100	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	49.860	0.3	104	0.00
66	S	p-Bromofluorobenzene	50.000	46.414	7.2	98	0.00
67	T	1,2,3-Trichloropropane	50.000	53.678	-7.4	110	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	48.975	2.0	105	0.00
69	T	n-Propylbenzene	50.000	49.267	1.5	100	0.00
70	T	Bromobenzene	50.000	49.336	1.3	101	0.00
71	T	1,3,5-Trimethylbenzene	50.000	49.466	1.1	100	0.00
72	T	2-Chlorotoluene	50.000	48.447	3.1	101	0.00
73	T	4-Chlorotoluene	50.000	49.883	0.2	100	0.00
74	T	a-Methylstyrene	50.000	49.107	1.8	99	0.00
75	T	tert-Butylbenzene	50.000	49.690	0.6	101	0.00
76	T	1,2,4-Trimethylbenzene	50.000	45.975	8.0	99	0.00
77	T	sec-Butylbenzene	50.000	49.241	1.5	100	0.00
78	T	p-Isopropyltoluene	50.000	49.872	0.3	100	0.00
79	T	1,3-Dichlorobenzene	50.000	49.107	1.8	100	0.00
80	T	1,4-Dichlorobenzene	50.000	48.219	3.6	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\6M14297.D Vial: 2
Acq On : 28 Jun 1999 9:00 Operator: CMS
Sample : WG60143-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	48.962	2.1	99	0.00
82	T	1,2-Dichlorobenzene	50.000	49.027	1.9	101	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	53.893	-7.8	107	0.00
84	T	1,2,4-Trichlorobenzene	50.000	49.484	1.0	101	0.00
85	T	Hexachlorobutadiene	50.000	50.147	-0.3	99	0.00
86	T	Naphthalene	50.000	50.334	-0.7	115	0.00
87	T	1,2,3-Trichlorobenzene	50.000	49.633	0.7	102	0.00

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60143

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60143-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.0002	0.003	
1,1,1-Trichloroethane	0.00018	0.004	
1,1,2,2-Tetrachloroethane	0.00012	0.002	
1,1,2-Trichloroethane	0.00017	0.005	
1,1-Dichloroethane	0.00015	0.002	
1,1-Dichloroethene	0.00012	0.006	
1,1-Dichloropropene	0.000076	0.005	
1,2,3-Trichlorobenzene	0.00023	0.002	
1,2,3-Trichloropropane	0.00019	0.02	
1,2,4-Trichlorobenzene	0.00027	0.002	
1,2,4-Trimethylbenzene	0.00017	0.007	
1,2-Dibromo-3-chloropropane	0.00035	0.01	
1,2-Dibromoethane	0.00012	0.003	
1,2-Dichlorobenzene	0.00015	0.002	
1,2-Dichloroethane	0.00016	0.003	
1,2-Dichloropropane	0.00097	0.002	
1,3,5-Trimethylbenzene	0.00009	0.003	
1,3-Dichlorobenzene	0.00019	0.006	
1,3-Dichloropropane	0.00012	0.002	
1,4-Dichlorobenzene	0.00015	0.002	
1-Chlorohexane	0.000044	0.003	
2,2-Dichloropropane	0.00012	0.02	
2-Chlorotoluene	0.00014	0.002	
4-Chlorotoluene	0.00014	0.003	

Comments:

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60143

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60143-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
Benzene	0.00012	0.002	
Bromobenzene	0.00015	0.002	
Bromochloromethane	0.00011	0.002	
Bromodichloromethane	0.00012	0.004	
Bromoform	0.00016	0.006	
Bromomethane	0.00035	0.005	
Carbon tetrachloride	0.00017	0.01	
Chlorobenzene	0.00018	0.002	
Chloroethane	0.00046	0.005	
Chloroform	0.00016	0.002	
Chloromethane	0.00034	0.007	
Dibromochloromethane	0.00014	0.003	
Dibromomethane	0.00015	0.01	
Dichlorodifluoromethane	0.00031	0.005	
Ethylbenzene	0.00014	0.003	
Hexachlorobutadiene	0.00026	0.005	
Isopropylbenzene	0.000075	0.008	
Methylene chloride	0.00071	0.002	
Naphthalene	0.0009	0.002	
Styrene	0.0001	0.002	
Tetrachloroethene	0.00021	0.007	
Toluene	0.00101	0.005	
Trichloroethene	0.00018	0.01	
Trichlorofluoromethane	0.00028	0.004	

Comments:

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60143

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60143-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
Vinyl chloride	0.00039	0.009	
cis-1,2-Dichloroethene	0.000094	0.006	
cis-1,3-Dichloropropene	0.000097	0.005	
m-,p-Xylene	0.00026	0.005	
n-Butylbenzene	0.00012	0.005	
n-Propylbenzene	0.00012	0.002	
o-Xylene	0.0001	0.005	
p-Isopropyltoluene	0.000084	0.006	
sec-Butylbenzene	0.00011	0.007	
tert-Butylbenzene	0.00012	0.007	
trans-1,2-Dichloroethene	0.000084	0.003	
trans-1,3-Dichloropropene	0.0001	0.005	

Comments:

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ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60143

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60143-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	.02	0.0201	100.5	62 - 108	
1,1,1-Trichloroethane	.02	0.023	115	65 - 135	
1,1,2,2-Tetrachloroethane	.02	0.0195	97.5	64 - 135	
1,1,2-Trichloroethane	.02	0.0204	102	65 - 135	
1,1-Dichloroethane	.02	0.0217	108.5	62 - 135	
1,1-Dichloroethene	.02	0.0232	116	65 - 135	
1,1-Dichloropropene	.02	0.0249	124.5	65 - 135	
1,2,3-Trichlorobenzene	.02	0.020	100	65 - 147	
1,2,3-Trichloropropane	.02	0.0213	106.5	65 - 135	
1,2,4-Trichlorobenzene	.02	0.0198	99	65 - 145	
1,2,4-Trimethylbenzene	.02	0.0192	96	65 - 135	
1,2-Dibromo-3-chloropropane	.02	0.0196	98	49 - 135	
1,2-Dibromoethane	.02	0.0208	104	65 - 135	
1,2-Dichlorobenzene	.02	0.0202	101	65 - 135	
1,2-Dichloroethane	.02	0.0224	112	58 - 137	
1,2-Dichloropropane	.02	0.0205	102.5	60 - 135	
1,3,5-Trimethylbenzene	.02	0.0206	103	62 - 135	
1,3-Dichlorobenzene	.02	0.020	100	65 - 135	
1,3-Dichloropropane	.02	0.0205	102.5	65 - 135	
1,4-Dichlorobenzene	.02	0.0195	97.5	65 - 135	
1-Chlorohexane	.02	0.0222	111	65 - 135	
2,2-Dichloropropane	.02	0.0226	113	65 - 135	
2-Chlorotoluene	.02	0.0204	102	63 - 135	
4-Chlorotoluene	.02	0.0202	101	64 - 135	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60143

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60143-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Benzene	.02	0.0208	104	65 - 135	
Bromobenzene	.02	0.020	100	65 - 135	
Bromochloromethane	.02	0.0229	114.5	63 - 135	
Bromodichloromethane	.02	0.0214	107	65 - 135	
Bromoform	.02	0.0157	78.5	65 - 135	
Bromomethane	.02	0.0301	150.5	62 - 135	*
Carbon tetrachloride	.02	0.0225	112.5	52 - 135	
Chlorobenzene	.02	0.0207	103.5	65 - 135	
Chloroethane	.02	0.0229	114.5	55 - 135	
Chloroform	.02	0.0223	111.5	64 - 135	
Chloromethane	.02	0.019	95	65 - 135	
Dibromochloromethane	.02	0.0205	102.5	63 - 135	
Dibromomethane	.02	0.0219	109.5	59 - 137	
Dichlorodifluoromethane	.02	0.0236	118	65 - 135	
Ethylbenzene	.02	0.0209	104.5	65 - 135	
Hexachlorobutadiene	.02	0.0206	103	65 - 135	
Isopropylbenzene	.02	0.0206	103	65 - 135	
Methylene chloride	.02	0.022	110	65 - 135	
Naphthalene	.02	0.0199	99.5	65 - 135	
Styrene	.02	0.0206	103	65 - 135	
Tetrachloroethene	.02	0.0209	104.5	61 - 135	
Toluene	.02	0.0212	106	64 - 135	
Trichloroethene	.02	0.0219	109.5	61 - 135	
Trichlorofluoromethane	.02	0.0137	68.5	57 - 135	

Comments:

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ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B AAB # : WG60143

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

LCS ID: WG60143-04 Units: mg/kg Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Vinyl chloride	.02	0.0251	125.5	36 - 144	
cis-1,2-Dichloroethene	.02	0.0213	106.5	65 - 135	
cis-1,3-Dichloropropene	.02	0.0214	107	64 - 135	
m-,p-Xylene	.04	0.041	102.5	65 - 135	
n-Butylbenzene	.02	0.0203	101.5	65 - 135	
n-Propylbenzene	.02	0.0207	103.5	65 - 135	
o-Xylene	.02	0.0204	102	65 - 135	
p-Isopropyltoluene	.02	0.0198	99	65 - 135	
sec-Butylbenzene	.02	0.0201	100.5	65 - 135	
tert-Butylbenzene	.02	0.0206	103	65 - 135	
trans-1,2-Dichloroethene	.02	0.0231	115.5	65 - 135	
trans-1,3-Dichloropropene	.02	0.0201	100.5	56 - 135	

Comments:

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ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8260B AAB#: WG60143

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0102BA	19-Jun-99	21-Jun-99	N/A	14	N/A	28-Jun-99	14	9	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG59939 Analyst CMS

Analysis Date 6-24-99 Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: 6/25/99 CMS

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14194	NA	1	WG59939-01 BFB 50 PPM STD	5ml	NA	✓	1	NA	S-46-7	NA	0730
6M14195		2	-02 50 PPB STD M8260	5g/5ml		✓ (SOIL)			VSTD0624*	S-46-43 S-46-44	—
6M14196		3	-03 20			✓					—
6M14197		4	-04 10			✓					—
6M14198		5	-05 5			✓					—
6M14199		6	-06 2			✓					—
6M14200		7	-07 1			✓					—
6M14201		8	-08 100			✓					—
6M14202		9	-09 200			✓					—
6M14203		10	SYSTEM BLANK			✓			NA		—
6M14204		11	WG59939-10 20 PPB ALT SRC STD			✓			QC0624*		1355

*VSTD0624: Calibration STD's S-46-41/S-46-42/S-47-9/S-47-10/S-46-21/S-46-46 *QC0624: Alternate Source/QC STD's S-46-40/S-46-29/S-46-30/S-47-7 Reviewed By: ____

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
[redacted]S = Interference with internal and/or surrogate standards
SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carry over from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (6[redacted]
3 MSV08ACLP Revision [redacted]LP 3/90)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60143
Analysis Date 6-28-99

Analyst CMS
Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	〃
clip column (___ cm)	〃
change helium	✓

Additional Maintenance

Problem: NA

Action Taken: Changed Helium cmS

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14296	NA	1	WG60143-01 BFB 50PPM STD	5ml	NA	✓	1	NA	S-47-14	S-46-43 S-47-10 NA	0830
6M14297	〃	2	〃 -02 50PPB STD MB260	5g/5ml	〃	✓	〃	〃	NSTD0624	C-47-10 S-46-43 S-46-44	—
6M14298	〃	3	〃 -03 VBLK0628 SOIL BLANK	〃	〃	✓	〃	〃	NA	〃	—
6M14299	〃	4	〃 -04 20PPB VOA QC SPIKE	〃	〃	✓	〃	〃	QC0624	〃	—
6M14300	〃	5	L9906512-03 FP&M B26AFSB	〃	〃	✓	〃	〃	NA	〃	—
6M14301	〃	6	〃 -03 MS 〃 〃	〃	〃	✓	〃	〃	QC0624	〃	—
6M14302	〃	7	〃 -03 MSD 〃 〃	〃	〃	✓	〃	〃	〃	〃	—
6M14303	〃	8	L9906394-03 ORMET MB260	〃	〃	✓	〃	〃	NA	〃	—
6M14304	〃	9	L9906556-02 〃 〃	〃	〃	✓	〃	〃	〃	〃	—
6M14305	〃	10	L9906415-01 BAVIV 826TCL	〃	〃	✓	〃	〃	〃	〃	—
6M14306	〃	11	WG60143-08 100PPB FOOL5 STD	〃	〃	✓	〃	〃	F00-0211	〃	—

Calibration STD's VSTD0624 Alternate Source/QC STD's QC0624 Reviewed By: ___

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

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KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60143
Analysis Date 6-28-99

Analyst CMS
Instrument HPMS6

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14307	NA	12	L9906596-01 UCC 8260/824-F001.5	5g/5ml	NA	✓	1	NA	NA	S-46-43 S-46-44	—
6M14308		13	L9906597-01			✓					—
6M14309		14	L99565-01 VERSAR MB260			✓					—
6M14310		15	-02			✓					—
6M14311		16	-03			✓					—
6M14312		17	-04			✓					—
6M14313		18	-05			✓					—
6M14314		19	L9906635-01 IT Corp 826TCL			✓					—
6M14315		20	-02			✓					1957
6M14316		21	-03			MT: RR					—
6M14317		22	-04								—
			(2nd Tune didn't pass)								

6/29/99 CMS

Calibration STD's VSTD0624
Alternate Source/QC STD's QC0624
Reviewed By:

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

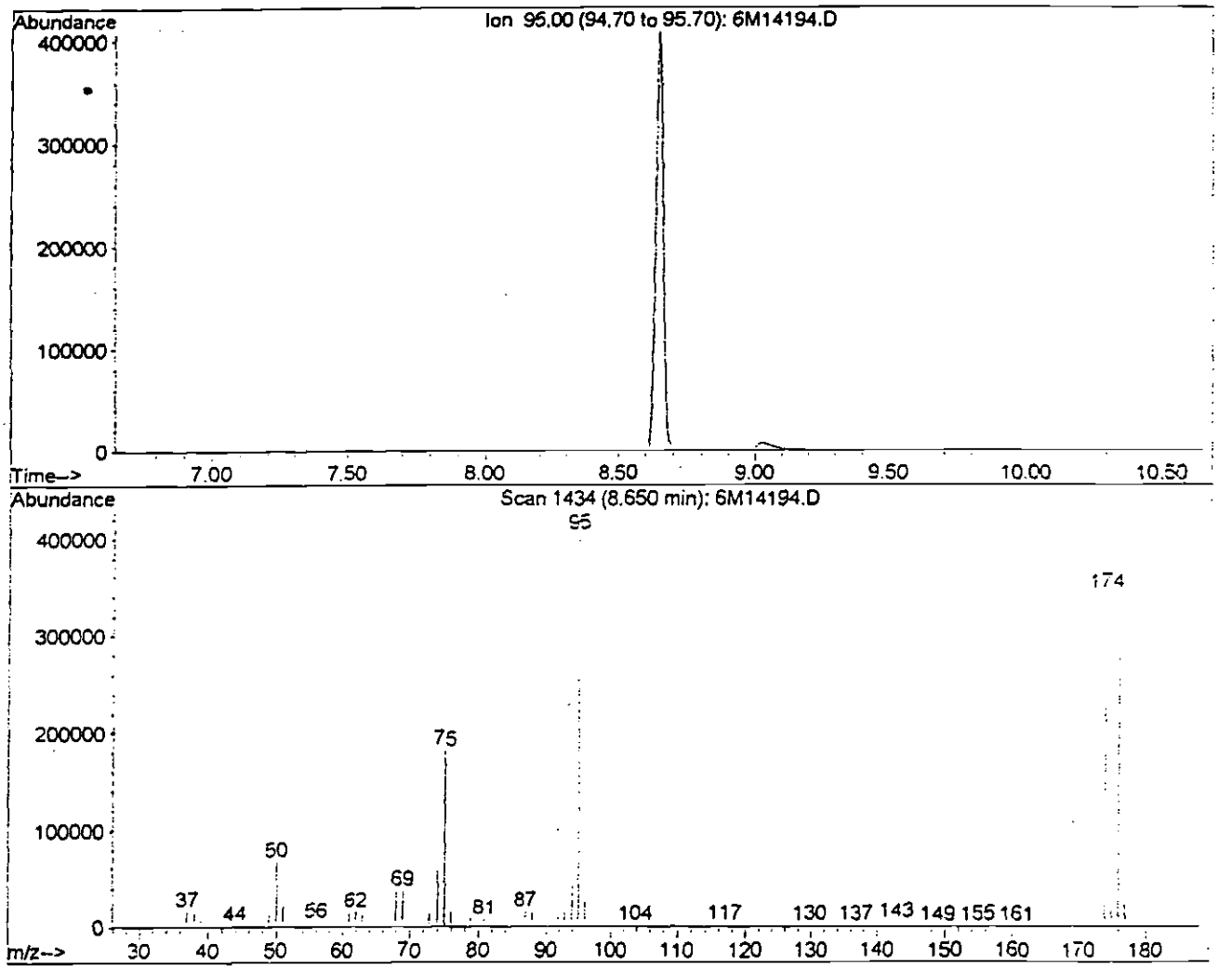
SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

BFB

Data File : C:\HPCHEM\1\DATA\062499\6M14194.D
Acq On : 24 Jun 1999 7:30
Sample : WG59939-01 BFB 50 PPM STD S-46-7 10UL/50
Misc : SOLID,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99

Vial: 1
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

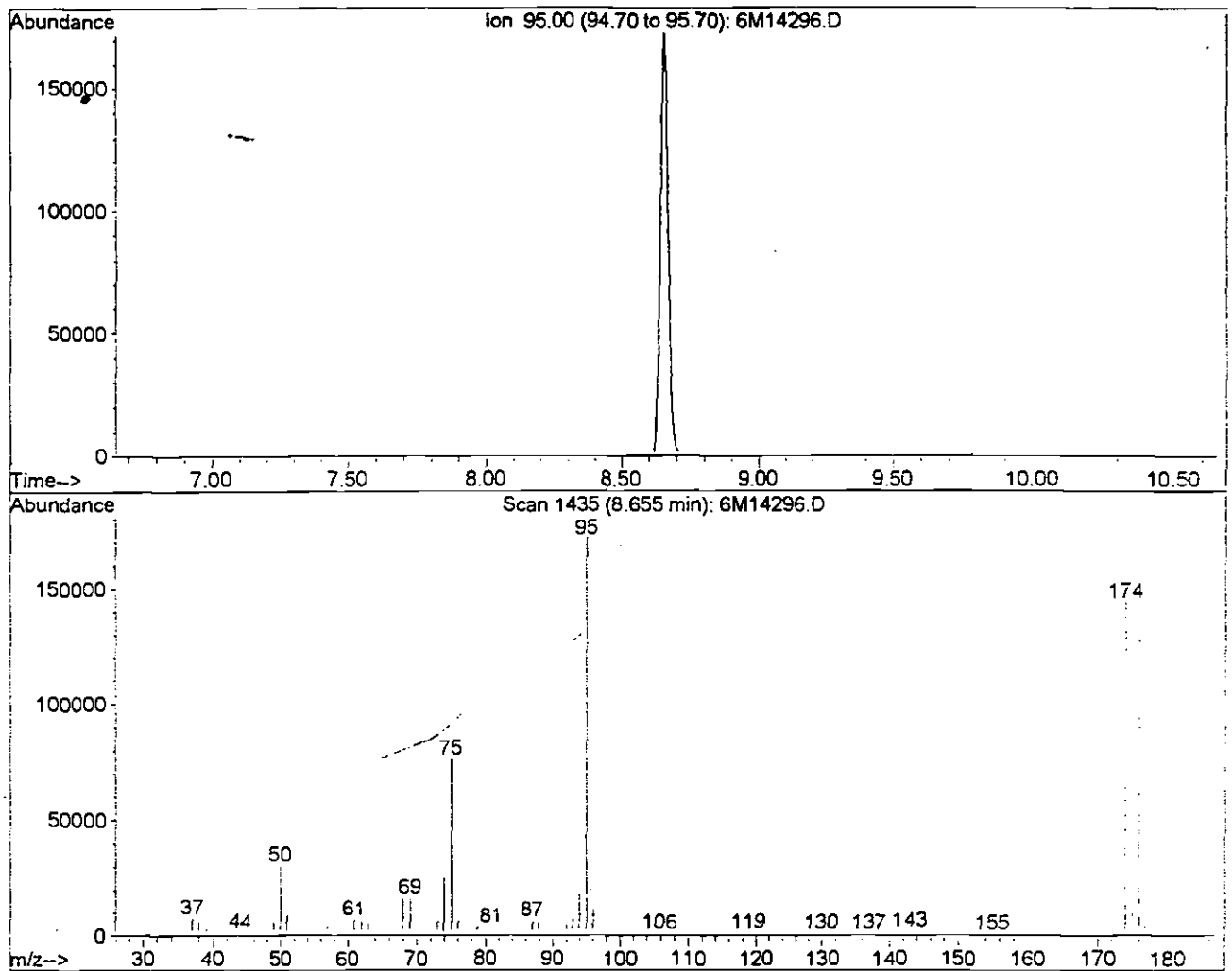


Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	67680	PASS
75	95	30	60	44.4	181376	PASS
95	95	100	100	100.0	408448	PASS
96	95	5	9	6.5	26616	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.0	343232	PASS
175	174	5	9	7.5	25584	PASS
176	174	95	101	98.3	337536	PASS
177	176	5	9	6.7	22600	PASS

BFB

Data File : C:\HPCHEM\1\DATA\062899\6M14296.D Vial: 1
Acq On : 28 Jun 1999 8:30 Operator: CMS
Sample : WG60143-01 BFB 50 PPM STD S-47-14 10UL/5 Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99



Spectrum Information: Scan 1435

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	30152	PASS
75	95	30	60	44.1	76072	PASS
95	95	100	100	100.0	172544	PASS
96	95	5	9	6.7	11483	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.5	144064	PASS
175	174	5	9	7.2	10404	PASS
176	174	95	101	95.7	137856	PASS
177	176	5	9	6.7	9261	PASS

6M14296.D 8260BSL.M Mon Jun 28 08:43:02 1999 HPMS_6

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : **8260B** AAB # : **WG60521**

Lab Name : **Kemron Environmental Services** Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB** Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SUN0100BF	L9906512-04
S13SUN0100BE	L9906512-05
TRIP BLANK	L9906512-06

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe Name: **Dennis S. Tepe**

Date: **13-JUL-99** Title: **Laboratory Manager**

Calibration Table Report
Method: AF98WT.M
Title: Method 8260B Water Analysis 06/03/99
Last Calibration: Thu Jun 03 16:53:19 1999 Ave, %RSD= 10.698

Calibration Files

	Compound	0.5 9M3169.D	1 9M3168.D	200 9M3162.D	5 9M3167.D	10 9M3166.D	100 9M3163.D	20 9M3165.D	50 9M3164.D	Avg	%RSD
I	Fluorobenzene	ISTD									
T	Dichlorodifluoromethane	0.270	0.248	0.270	0.252	0.250	0.266	0.268	0.268	0.262	3.7
P	Chloromethane	0.292	0.244	0.230	0.220	0.222	0.232	0.232	0.225	0.237	9.9
C	Vinyl Chloride	0.189	0.168	0.112	0.151	0.124	0.109	0.127	0.123	0.138	20.8
T	Bromomethane	0.130	0.112	0.118	0.101	0.105	0.109	0.109	0.108	0.111	8.1
T	Chloroethane	0.140	0.133	0.141	0.126	0.126	0.139	0.132	0.136	0.134	4.3
T	Trichlorofluoromethane	0.503	0.458	0.500	0.460	0.451	0.464	0.478	0.469	0.473	4.1
T	Isoprene	0.266	0.289	0.333	0.316	0.329	0.341	0.347	0.348	0.321	9.1
T	Acrolein			0.004	0.003	0.003	0.004	0.004	0.004	0.004	13.2
T	1;1,2-Trichloro-1,2,2-Trifluorometha	0.275	0.251	0.259	0.252	0.248	0.258	0.264	0.262	0.259	3.3
T	Acetone			0.043	0.044	0.042	0.041	0.044	0.047	0.043	4.7
C	1,1-Dichloroethene	0.205	0.221	0.237	0.227	0.231	0.237	0.233	0.241	0.229	5.1
T	Dimethyl Sulfide	0.214	0.238	0.281	0.258	0.267	0.275	0.281	0.280	0.262	9.3
T	Iodomethane		0.038	0.171	0.050	0.059	0.147	0.078	0.103	0.092	54.8
T	Methylene Chloride	0.256	0.270	0.244	0.244	0.239	0.245	0.240	0.247	0.248	4.1
T	Carbon Disulfide		0.685	0.710	0.703	0.716	0.723	0.757	0.746	0.720	3.4
T	Acrylonitrile		0.042	0.059	0.053	0.051	0.057	0.059	0.060	0.054	11.6
T	Methyl Tert Butyl Ether	0.469	0.499	0.536	0.518	0.517	0.543	0.569	0.577	0.529	6.8
T	trans-1,2-Dichloroethene	0.209	0.245	0.246	0.242	0.246	0.249	0.250	0.256	0.243	5.8
T	n-Hexane	0.323	0.377	0.331	0.336	0.346	0.346	0.362	0.359	0.347	5.1
T	Vinyl Acetate			0.234	0.209	0.225	0.219	0.241	0.247	0.229	6.1
P	1,1-Dichloroethane	0.394	0.444	0.439	0.448	0.449	0.449	0.455	0.462	0.443	4.7
T	2-Butanone			0.059	0.051	0.050	0.056	0.057	0.060	0.055	7.4
T	2,2-Dichloropropane	0.300	0.348	0.414	0.373	0.387	0.410	0.397	0.420	0.381	10.6
T	cis-1,2-Dichloroethene	0.232	0.264	0.274	0.277	0.281	0.280	0.284	0.289	0.275	6.6
C	Chloroform	0.407	0.461	0.437	0.445	0.448	0.448	0.452	0.461	0.445	3.9
T	Bromochloromethane	0.111	0.127	0.127	0.129	0.128	0.129	0.131	0.134	0.127	5.4
S	Dibromofluoromethane		0.258	0.257	0.250	0.251	0.261	0.268	0.268	0.259	2.8
T	1,1,1-Trichloroethane	0.353	0.397	0.413	0.406	0.411	0.420	0.421	0.431	0.406	5.9
T	Cyclohexane	0.326	0.374	0.390	0.400	0.410	0.412	0.436	0.428	0.397	8.8
T	1,1-Dichloropropene	0.265	0.305	0.327	0.323	0.326	0.326	0.332	0.337	0.318	7.4
T	Carbon Tetrachloride	0.310	0.353	0.402	0.363	0.371	0.400	0.388	0.406	0.374	8.6
S	1,2-Dichloroethane-d4		0.267	0.244	0.252	0.247	0.249	0.263	0.259	0.254	3.5
T	1,2-Dichloroethane	0.311	0.345	0.322	0.335	0.331	0.327	0.336	0.344	0.331	3.5
T	Benzene	0.864	1.025	0.838	1.012	1.019	0.949	1.023	1.022	0.969	8.0
T	Trichloroethene	0.278	0.306	0.301	0.301	0.304	0.304	0.312	0.317	0.303	3.8
C	1,2-Dichloropropane	0.207	0.241	0.237	0.240	0.243	0.242	0.246	0.252	0.238	5.7
T	Bromodichloromethane	0.257	0.293	0.332	0.311	0.316	0.335	0.326	0.342	0.314	8.8
T	Dibromomethane	0.104	0.123	0.122	0.122	0.122	0.123	0.125	0.128	0.121	5.9
T	2-Chloroethyl Vinyl Ether		0.071	0.094	0.084	0.091	0.088	0.090	0.088	0.087	8.4
T	4-Methyl-2-Pentanone	0.035	0.039	0.059	0.051	0.051	0.057	0.058	0.060	0.051	18.6
T	cis-1,3-Dichloropropene	0.256	0.316	0.372	0.353	0.367	0.375	0.381	0.395	0.352	12.8
T	Dimethyl Disulfide		0.082	0.221	0.128	0.158	0.214	0.193	0.215	0.173	30.5
I	Chlorobenzene-d5	ISTD									
S	Toluene-d8		1.170	0.916	1.138	1.154	1.072	1.204	1.166	1.117	8.7
C	Toluene	1.151	1.388	1.018	1.395	1.412	1.244	1.397	1.379	1.298	11.2
T	Ethyl Methacrylate		0.203	0.281	0.255	0.267	0.282	0.295	0.304	0.269	12.5
T	trans-1,3-Dichloropropene	0.293	0.356	0.401	0.398	0.410	0.410	0.426	0.443	0.392	12.0
T	1,1,2-Trichloroethane	0.194	0.218	0.210	0.219	0.217	0.213	0.222	0.228	0.215	4.6
T	2-Hexanone			0.112	0.093	0.097	0.107	0.110	0.115	0.106	8.3
T	1,3-Dichloropropane	0.331	0.388	0.362	0.387	0.385	0.373	0.393	0.402	0.378	5.9
T	Tetrachloroethene	0.267	0.291	0.273	0.286	0.285	0.281	0.287	0.292	0.283	3.1

T	Dibromochloromethane	0.189	0.236	0.300	0.265	0.275	0.300	0.293	0.312	0.271	15.1
T	1,2-Dibromoethane	0.180	0.212	0.223	0.224	0.223	0.225	0.233	0.242	0.220	8.4
T	1-Chlorohexane	0.296	0.378	0.416	0.418	0.436	0.440	0.463	0.459	0.413	13.2
P	Chlorobenzene	0.921	1.053	0.785	1.018	1.030	0.922	1.018	1.007	0.969	9.2
T	[redacted],2-Tetrachloroethane	0.288	0.334	0.295	0.344	0.353	0.329	0.358	0.359	0.332	8.3
C	Ethylbenzene	0.466	0.541	0.446	0.539	0.541	0.500	0.538	0.537	0.514	7.5
T	m-,p-Xylene	0.567	0.670	0.466	0.677	0.679	0.582	0.672	0.655	0.621	12.4
T	o-Xylene	0.512	0.621	0.579	0.651	0.661	0.636	0.669	0.671	0.625	8.8
T	Styrene	0.800	1.017	0.880	1.123	1.148	1.064	1.166	1.165	1.046	13.2
P	Bromoform	0.100	0.119	0.180	0.140	0.147	0.175	0.163	0.179	0.150	19.6
T	Isopropylbenzene	1.201	1.584	1.145	1.690	1.714	1.496	1.726	1.694	1.531	15.3
I	1,4-Dichlorobenzene-d4	ISTD									
P	1,1,2,2-Tetrachloroethane	0.364	0.397	0.399	0.414	0.418	0.411	0.429	0.443	0.409	5.8
S	p-Bromofluorobenzene		0.860	0.742	0.839	0.867	0.826	0.890	0.866	0.842	5.7
T	1,2,3-Trichloropropane	0.135	0.158	0.149	0.154	0.152	0.150	0.156	0.160	0.152	5.1
T	trans-1,4-Dichloro-2-Butene	0.093	0.105	0.142	0.119	0.128	0.140	0.140	0.145	0.127	15.1
T	n-Propylbenzene	2.515	3.230	1.979	3.406	3.478	2.790	3.405	3.249	3.007	17.8
T	Bromobenzene	0.681	0.802	0.711	0.808	0.822	0.770	0.810	0.806	0.776	6.7
T	1,3,5-Trimethylbenzene	1.940	2.522	1.787	2.646	2.729	2.341	2.692	2.599	2.407	14.9
T	2-Chlorotoluene	1.939	2.260	1.588	2.191	2.286	1.986	2.222	2.099	2.071	11.2
T	4-Chlorotoluene	1.787	2.194	1.492	2.262	2.260	1.913	2.188	2.085	2.023	13.5
T	a-Methylstyrene	0.899	1.158	1.245	1.393	1.503	1.425	1.550	1.512	1.336	16.7
T	tert-Butylbenzene	1.892	2.247	1.595	2.240	2.258	2.009	2.241	2.158	2.080	11.4
T	1,2,4-Trimethylbenzene	2.331	2.760	1.783	2.668	2.757	2.360	2.702	2.632	2.499	13.4
T	sec-Butylbenzene	2.372	3.159	2.023	3.189	3.273	2.759	3.264	3.133	2.897	16.2
T	p-Isopropyltoluene	1.880	2.635	1.879	2.785	2.879	2.531	2.911	2.831	2.541	16.8
T	1,3-Dichlorobenzene	1.388	1.635	1.279	1.585	1.621	1.481	1.595	1.575	1.520	8.4
T	1,4-Dichlorobenzene	1.530	1.708	1.271	1.625	1.644	1.489	1.618	1.596	1.560	8.6
T	n-Butylbenzene	1.368	1.860	1.594	1.959	2.086	2.009	2.159	2.156	1.899	14.9
T	1,2-Dichlorobenzene	1.226	1.424	1.174	1.425	1.437	1.334	1.428	1.418	1.358	7.7
T	[redacted]Dibromo-3-Chloropropane	0.054	0.057	0.095	0.075	0.079	0.095	0.089	0.099	0.080	21.7
T	[redacted],4-Trichlorobenzene	0.461	0.666	0.766	0.760	0.812	0.862	0.867	0.894	0.761	18.6
T	Hexachlorobutadiene	0.561	0.513	0.306	0.359	0.346	0.325	0.340	0.331	0.385	24.9
T	Naphthalene	0.516	0.838	1.187	1.229	1.339	1.345	1.448	1.477	1.172	28.3
T	1,2,3-Trichlorobenzene	0.318	0.493	0.624	0.609	0.648	0.69	0.711	0.728	0.6027	22.678

Thu Jun 03 16:54:37 1999

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8260B
AAB#: WG60521
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS9
Initial Calibration ID: HPMS9 3-Jun-98
2nd Source ID: ALT HPMS9 3-Jun-98

Analyte	% D	Q
Chloromethane *	-11.10	
1,1-DCA *	7.36	
Bromoform *	19.00	
Chlorobenzene *	5.67	
1,1,2,2-TCA *	8.34	
1,1-DCE #	6.05	
Chloroform #	10.78	
1,2-DCP #	6.53	
Toluene #	8.19	
Ethylbenzene #	7.35	
Vinyl chloride #	0.83	
1,1,1,2-Tetrachloroethane	11.33	
1,1,1-TCA	14.36	
1,1,2-TCA	8.55	
1,1-Dichloropropene	23.80	
1,2,3-Trichlorobenzene	19.77	
1,2,3-Trichloropropane	10.36	
1,2,4-Trichlorobenzene	15.54	
1,2,4-Trimethylbenzene	9.03	
1,2-DCA	8.86	
1,2-DCB	7.57	
1,2-Dibromo-3-chloropropane	23.97	
1,2-EDB	12.85	
1,3,5-Trimethylbenzene	11.47	
1,3-DCB	4.83	
1,3-Dichloropropane	8.72	
1,4-DCB	3.23	
1-Chlorohexane	9.69	
2,2-Dichloropropane	16.53	
2-Chlorotoluene	8.17	
4-Chlorotoluene	5.79	
Benzene	7.57	
Bromobenzene	5.48	
Bromochloromethane	11.84	
Bromodichloromethane	15.24	
Bromomethane	13.95	
Carbon Tetrachloride	18.05	
Chloroethane	3.77	
Cis-1,2-DCE	6.64	
Cis-1,3-Dichloropropene	18.66	
Dibromochloromethane	20.27	
Dibromomethane	11.68	
Dichlorodifluoromethane	5.83	
Hexachlorobutadiene	-13.97	
Isopropylbenzene	12.30	
m+p-Xylene	7.57	
Methylene chloride	4.20	
n-Butylbenzene	14.13	
n-Propylbenzene	10.97	
Naphthalene	25.19	*
o-Xylene	8.96	
Sec-Butylbenzene	7.15	
Styrene	13.66	
TCE	9.70	
Tert-butylbenzene	13.44	
Tetrachloroethene	6.73	
Trans-1,2-DCE	14.21	
Trans-1,3-Dichloropropene	12.65	
Trichlorofluoromethane	6.45	

Comments:

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\070299\9M3816.D Vial: 2
Acq On : 2 Jul 1999 10:31 Operator: JLH
Sample : WG60521-02 50UG/L STD Inst : HPMS_9
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99
Last Update : Thu Jun 17 08:11:55 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	69	0.00
2	T	Dichlorodifluoromethane	50.000	50.617	-1.2	68	0.00
3	P	Chloromethane	50.000	48.612	2.8	70	0.01
4	C	Vinyl Chloride	50.000	52.955	-5.9	82	0.01
5	T	Bromomethane	50.000	53.130	-6.3	76	0.02
6	T	Chloroethane	50.000	50.077	-0.2	68	0.00
7	T	Trichlorofluoromethane	50.000	54.871	-9.7	76	0.00
8	T	Isoprene	50.000	52.164	-4.3	66	0.00
9	T	Acrolein	100.000	464.829	-364.8#	277	0.00
10	t	1,1,2-Trichloro-1,2,2-Trifl	50.000	51.865	-3.7	70	0.00
11	T	Acetone	50.000	48.656	2.7	62	0.00
12	C	1,1-Dichloroethene	50.000	52.326	-4.7	68	0.00
13	T	Dimethyl Sulfide	50.000	50.061	-0.1	64	0.00
	T	Iodomethane	50.000	99.446	-98.9#	122	0.00
	T	Methylene Chloride	50.000	48.237	3.5	67	0.00
16	T	Carbon Disulfide	50.000	50.672	-1.3	67	0.00
17	T	Acrylonitrile	50.000	50.752	-1.5	64	0.00
18	T	Methyl Tert Butyl Ether	50.000	54.731	-9.5	69	0.00
19	T	trans-1,2-Dichloroethene	50.000	52.047	-4.1	68	0.00
20	T	n-Hexane	50.000	49.240	1.5	65	0.00
21	T	Vinyl Acetate	50.000	54.213	-8.4	69	0.00
22	P	1,1-Dichloroethane	50.000	51.573	-3.1	68	0.00
23	T	2-Butanone	50.000	47.930	4.1	61	0.00
24	T	2,2-Dichloropropane	50.000	58.395	-16.8	73	0.00
25	T	cis-1,2-Dichloroethene	50.000	52.781	-5.6	68	0.00
26	C	Chloroform	50.000	54.514	-9.0	72	0.00
27	T	Bromochloromethane	50.000	53.294	-6.6	69	0.00
28	S	Dibromofluoromethane	50.000	26.444	47.1#	35	0.00
29	T	1,1,1-Trichloroethane	50.000	58.505	-17.0	76	0.00
30	T	Cyclohexane	50.000	51.625	-3.3	66	0.00
31	T	1,1-Dichloropropene	50.000	54.114	-8.2	70	0.00
32	T	Carbon Tetrachloride	50.000	61.644	-23.3	78	0.00
33	S	1,2-Dichloroethane-d4	50.000	26.990	46.0#	36	0.00
34	T	1,2-Dichloroethane	50.000	55.306	-10.6	73	0.00
35	T	Benzene	50.000	52.121	-4.2	68	0.00
36	T	Trichloroethene	50.000	53.505	-7.0	70	0.00
37	C	1,2-Dichloropropane	50.000	50.506	-1.0	66	0.00
38	T	Bromodichloromethane	50.000	57.736	-15.5	73	0.00
39	T	Dibromomethane	50.000	54.499	-9.0	71	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	56.366	-12.7	76	0.00
41	T	4-Methyl-2-Pentanone	50.000	53.600	-7.2	63	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\070299\9M3816.D
Acq On : 2 Jul 1999 10:31
Sample : WG60521-02 50UG/L STD
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: JLH
Inst : HPMS_9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99
Last Update : Thu Jun 17 08:11:55 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	56.506	-13.0	69	0.00
43	T	Dimethyl Disulfide	50.000	65.759	-31.5#	73	0.00
44	I	Chlorobenzene-d5	25.000	25.000	0.0	69	0.00
45	S	Toluene-d8	50.000	26.777	46.4#	35	0.00
46	C	Toluene	50.000	53.518	-7.0	70	0.00
47	T	Ethyl Methacrylate	50.000	54.009	-8.0	66	0.00
48	T	trans-1,3-Dichloropropene	50.000	57.868	-15.7	71	0.00
49	T	1,1,2-Trichloroethane	50.000	53.125	-6.3	69	0.00
50	T	2-Hexanone	50.000	49.674	0.7	63	0.00
51	T	1,3-Dichloropropane	50.000	53.156	-6.3	69	0.00
52	T	Tetrachloroethene	50.000	55.034	-10.1	74	0.00
53	T	Dibromochloromethane	50.000	61.757	-23.5	74	0.00
54	T	1,2-Dibromoethane	50.000	55.654	-11.3	70	0.00
55	T	1-Chlorohexane	50.000	56.220	-12.4	70	0.00
56	P	Chlorobenzene	50.000	53.602	-7.2	71	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	58.596	-17.2	75	0.00
58	C	Ethylbenzene	50.000	53.485	-7.0	71	0.00
59	T	m-,p-Xylene	100.000	109.611	-9.6	72	0.00
60	T	o-Xylene	50.000	54.687	-9.4	70	0.00
61	T	Styrene	50.000	56.510	-13.0	70	0.00
62	P	Bromoform	50.000	64.096	-28.2#	74	0.00
63	T	Isopropylbenzene	50.000	58.561	-17.1	73	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	71	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	51.955	-3.9	68	0.00
66	S	p-Bromofluorobenzene	50.000	25.891	48.2#	36	0.00
67	T	1,2,3-Trichloropropane	50.000	53.364	-6.7	72	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	52.631	-5.3	65	0.00
69	T	n-Propylbenzene	50.000	55.542	-11.1	73	0.00
70	T	Bromobenzene	50.000	53.041	-6.1	72	0.00
71	T	1,3,5-Trimethylbenzene	50.000	56.003	-12.0	73	0.00
72	T	2-Chlorotoluene	50.000	51.601	-3.2	72	0.00
73	T	4-Chlorotoluene	50.000	55.546	-11.1	76	0.00
74	T	a-Methylstyrene	50.000	56.399	-12.8	70	0.00
75	T	tert-Butylbenzene	50.000	53.934	-7.9	73	0.00
76	T	1,2,4-Trimethylbenzene	50.000	54.021	-8.0	72	0.00
77	T	sec-Butylbenzene	50.000	55.726	-11.5	73	0.00
78	T	p-Isopropyltoluene	50.000	57.599	-15.2	73	0.00
79	T	1,3-Dichlorobenzene	50.000	53.224	-6.4	73	0.00
80	T	1,4-Dichlorobenzene	50.000	52.684	-5.4	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\070299\9M3816.D Vial: 2
Acq On : 2 Jul 1999 10:31 Operator: JLH
Sample : WG60521-02 50UG/L STD Inst : HPMS_9
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99
Last Update : Thu Jun 17 08:11:55 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	56.451	-12.9	70	0.00
82	T	1,2-Dichlorobenzene	50.000	53.412	-6.8	72	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	60.397	-20.8	70	0.00
84	T	1,2,4-Trichlorobenzene	50.000	58.072	-16.1	70	0.00
85	T	Hexachlorobutadiene	50.000	47.358	5.3	78	0.00
86	T	Naphthalene	50.000	60.004	-20.0	67	0.00
87	T	1,2,3-Trichlorobenzene	50.000	57.485	-15.0	67	0.00

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60521

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG60521-03

Initial Calibration HPMS9 03-JUN-1999

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.21	0.50	
1,1,1-Trichloroethane	0.23	0.80	
1,1,2,2-Tetrachloroethane	0.14	0.50	
1,1,2-Trichloroethane	0.24	1.0	
1,1-Dichloroethane	0.23	0.50	
1,1-Dichloroethene	0.21	1.2	
1,1-Dichloropropene	0.20	1.0	
1,2,3-Trichlorobenzene	0.14	1.0	
1,2,3-Trichloropropane	0.34	3.2	
1,2,4-Trichlorobenzene	0.16	2.0	
1,2,4-Trimethylbenzene	0.23	1.3	
1,2-Dibromo-3-chloropropane	0.79	2.6	
1,2-Dibromoethane	0.23	0.60	
1,2-Dichlorobenzene	0.12	1.0	
1,2-Dichloroethane	0.22	0.60	
1,2-Dichloropropane	0.20	0.50	
1,3,5-Trimethylbenzene	0.22	0.50	
1,3-Dichlorobenzene	0.19	1.2	
1,3-Dichloropropane	0.19	0.50	
1,4-Dichlorobenzene	0.14	1.0	
1-Chlorohexane	0.26	1.0	
2,2-Dichloropropane	0.19	3.5	
2-Chlorotoluene	0.17	1.0	
4-Chlorotoluene	0.29	0.60	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60521

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG60521-03

Initial Calibration HPMS9 03-JUN-1999

Analyte	Method Blank	RL	Q
Benzene	0.17	0.50	
Bromobenzene	0.17	1.0	
Bromochloromethane	0.18	0.50	
Bromodichloromethane	0.19	1.0	
Bromoform	0.33	1.2	
Bromomethane	0.37	1.2	
Carbon tetrachloride	0.23	2.1	
Chlorobenzene	0.300	0.50	
Chloroethane	0.26	1.0	
Chloroform	0.17	0.50	
Chloromethane	0.26	1.3	
Dibromochloromethane	0.26	0.50	
Dibromomethane	0.21	2.4	
Dichlorodifluoromethane	0.18	1.0	
Ethylbenzene	0.25	1.0	
Hexachlorobutadiene	0.740	1.1	
Isopropylbenzene	0.16	0.50	
Methylene chloride	0.10	1.0	
Naphthalene	0.13	1.0	
Styrene	0.20	1.0	
Tetrachloroethene	0.25	1.4	
Toluene	0.20	1.1	
Trichloroethene	0.17	1.0	
Trichlorofluoromethane	0.26	1.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60521

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG60521-03

Initial Calibration HPMS9 03-JUN-1999

Analyte	Method Blank	RL	Q
Vinyl chloride	0.35	1.1	
cis-1,2-Dichloroethene	0.15	1.2	
cis-1,3-Dichloropropene	0.18	1.0	
m-,p-Xylene	0.29	1.0	
n-Butylbenzene	0.20	1.1	
n-Propylbenzene	0.19	1.0	
o-Xylene	0.21	1.1	
p-Isopropyltoluene	0.22	1.2	
sec-Butylbenzene	0.25	1.3	
tert-Butylbenzene	0.21	1.4	
trans-1,2-Dichloroethene	0.21	0.60	
trans-1,3-Dichloropropene	0.21	1.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60521

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60521-04

Units: ug/L

Initial Calibration HPMS9 03-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	20	24.2	121	72 - 125	
1,1,1-Trichloroethane	20	24.1	120.5	75 - 125	
1,1,2,2-Tetrachloroethane	20	21.4	107	74 - 125	
1,1,2-Trichloroethane	20	22.4	112	75 - 127	
1,1-Dichloroethane	20	21.1	105.5	72 - 125	
1,1-Dichloroethene	20	21.1	105.5	75 - 125	
1,1-Dichloropropene	20	24.3	121.5	75 - 125	
1,2,3-Trichlorobenzene	20	23.2	116	75 - 137	
1,2,3-Trichloropropane	20	23.2	116	75 - 125	
1,2,4-Trichlorobenzene	20	22.7	113.5	75 - 135	
1,2,4-Trimethylbenzene	20	22.2	111	75 - 125	
1,2-Dibromo-3-chloropropane	20	24.2	121	59 - 125	
1,2-Dibromoethane	20	23.2	116	75 - 125	
1,2-Dichlorobenzene	20	22.5	112.5	75 - 125	
1,2-Dichloroethane	20	23.1	115.5	68 - 127	
1,2-Dichloropropane	20	20.1	100.5	70 - 125	
1,3,5-Trimethylbenzene	20	23.2	116	72 - 112	*
1,3-Dichlorobenzene	20	21.7	108.5	75 - 125	
1,3-Dichloropropane	20	22.1	110.5	75 - 125	
1,4-Dichlorobenzene	20	21.4	107	75 - 125	
1-Chlorohexane	20	23.0	115	75 - 125	
2,2-Dichloropropane	20	23.1	115.5	75 - 125	
2-Chlorotoluene	20	21.1	105.5	73 - 125	
4-Chlorotoluene	20	21.9	109.5	74 - 125	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60521

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60521-04

Units: ug/L

Initial Calibration HPMS9 03-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Benzene	20	21.4	107	75 - 125	
Bromobenzene	20	21.5	107.5	75 - 125	
Bromochloromethane	20	22.5	112.5	73 - 125	
Bromodichloromethane	20	23.4	117	75 - 125	
Bromoform	20	25.1	125.5	75 - 125	*
Bromomethane	20	27.3	136.5	72 - 125	*
Carbon tetrachloride	20	25.2	126	62 - 125	*
Chlorobenzene	20	22.3	111.5	75 - 125	
Chloroethane	20	20.2	101	65 - 125	
Chloroform	20	22.7	113.5	74 - 125	
Chloromethane	20	19.8	99	75 - 125	
Dibromochloromethane	20	25.0	125	73 - 125	
Dibromomethane	20	23.1	115.5	69 - 127	
Dichlorodifluoromethane	20	25.6	128	75 - 125	*
Ethylbenzene	20	22.4	112	75 - 125	
Hexachlorobutadiene	20	19.1	95.5	75 - 125	
Isopropylbenzene	20	24.2	121	75 - 125	
Methylene chloride	20	20.4	102	75 - 125	
Naphthalene	20	24.8	124	75 - 125	
Styrene	20	23.4	117	75 - 125	
Tetrachloroethene	20	22.1	110.5	71 - 125	
Toluene	20	22.2	111	74 - 125	
Trichloroethene	20	22.2	111	71 - 125	
Trichlorofluoromethane	20	23.2	116	67 - 125	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60521

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60521-04

Units: ug/L

Initial Calibration HPMS9 03-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Vinyl chloride	20	24.1	120.5	46 - 134	
cis-1,2-Dichloroethene	20	21.2	106	75 - 125	
cis-1,3-Dichloropropene	20	23.3	116.5	74 - 125	
m-,p-Xylene	40	45.7	114.3	75 - 125	
n-Butylbenzene	20	22.1	110.5	75 - 125	
n-Propylbenzene	20	23.2	116	75 - 125	
o-Xylene	20	22.5	112.5	75 - 125	
p-Isopropyltoluene	20	22.1	110.5	75 - 125	
sec-Butylbenzene	20	22.3	111.5	75 - 125	
tert-Butylbenzene	20	23.8	119	75 - 125	
trans-1,2-Dichloroethene	20	22.5	112.5	75 - 125	
trans-1,3-Dichloropropene	20	22.7	113.5	66 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8260B AAB#: WG60521

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0100BF	19-Jun-99	21-Jun-99	N/A	14	N/A	2-Jul-99	14	13	
S13SUN0100BE	19-Jun-99	21-Jun-99	N/A	14	N/A	2-Jul-99	14	13	
TRIP BLANK	19-Jun-99	21-Jun-99	N/A	14	N/A	2-Jul-99	14	13	

Comments:

Forms by ChemSW(707)864-0645;v1.0;12/1/9

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG58737
Analysis Date 6/3/99

Analyst GH
Instrument HP5972A

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	NA
replace septa	
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: SLF 6/4/99

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
m3159	NA	1	WG58737-01 50ng BFB	5ml	1	RR	1	—	546-07	—	NA
m3160		2	02 50ppb std	10ml		1		—	VSTD0419	546-08 546-09	1
m3161		3	01 50ppm BFB			✓		—	546-23	—	11:01
m3162		4	02 200 PPB STD			✓		—	VSTD0603	546-08 546-09	—
m3163		5	03 100			✓		—			—
m3164		6	04 50			✓		—	"		—
m3165		7	05 20			✓		—			—
m3166		8	06 10			✓		—			—
m3167		9	07 5			✓		—			—
m3168		10	08 1			✓		—			—
m3169		11	09 0.5			✓		—			—

Calibration STD's VSTD0603 = 546-23
Alternate Source/QC STD's LCS0603 = 546-01 546537 546613
Reviewed By: _____

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG58737

Analysis Date 6/3/99

Analyst JLH

Instrument HPMS9

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
9M3170	NA	12	WG58737-10 50ppb AH source	10ml	1	✓	1	—	LCS0603	34608 34609	—
9M3171	"	13	" 11 VBLK0603	"	"	✓	"	—	—	"	—
9M3172	"	14	" 12 20ppb QC Spike	"	"	✓	"	—	LCS0603	"	—
9M3173	<2	15	L9905626-25 826-AF98	"	"	✓	"	—	—	"	—
9M3174	"	16	" 25MS "	"	"	✓	"	—	LCS0603	"	—
9M3175	"	17	" 25MSD "	"	"	✓	"	—	"	"	—
9M3176	"	18	" 26 "	"	"	✓	"	—	—	"	—
9M3177	<2	19	L9906064-01 826-AF98	"	"	✓	"	—	—	"	—
9M3178	"	20	" 02 "	"	"	✓	"	—	—	"	21:26

JLH 6/4/99

Calibration STD's VSTD0603

Alternate Source/QC STD's LCS0603

Reviewed By: _____

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60521
Analysis Date 7/2/99

Analyst gH
Instrument HPMS4

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
9M3815	NA	1	WG60521-01 50ng BFB	5ml	1	✓	1	NA	S47-14	NA	1002
16		2	02 50ug/L Std	10ml		✓			S47-33	S47-21/S47-33	
17		3	03 VBIK0702			✓			NA		
18		4	04 20ug/L LCS			✓			S47-11		
19	<2	5	L9906478-05 DL-AF98			✓			NA		
20		6	06			✓					
21		7	08			✓					
22		8	L9906512-04			✓					
23		9	04MS			✓			S47-11		
24		10	04MSD			✓					
25		11	05			✓			NA		1548

Calibration STD's NA Alternate Source/QC STD's NA Reviewed By: ____

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

507 276

79

507 277

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60521
Analysis Date 7/2/99

Analyst JW
Instrument HP0759

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
9M3826	<2	12	L9906512-06 S26-AF98	10ml	1	✓	1	NA	NA	S47-31/S47-32	1625
27		13	L9906488-01 S26 Lowry			✓					
28		14	L9906509-09 S26-AF98			✓					
29		15	01			✓					
30		16	02			✓					
31		17	05			✓					
32		18	07			✓					
33		19	L9906524-03			✓					
34		20	04MS			✓			VS4711		
35		21	05MSD			✓					2146
36	NA	22	WG60551-01 50ng BFB	5ml	1	✓			S47-14	NA	2215
37		23	02 50ug/L Std	10ml		✓			S47-33	S47-31/S47-32	
38		24	03 VBLK0702			✓			NA		
39		25	04 20ug/L LCS			✓			S47-11		
40	<2	26	L9906513-02 S26-AF98-Kelly			✓			NA		
41		27	01			✓					
42		28	L9906524-01 S26-AF98			✓					
43		29	06			✓					
44		30	07			✓					
45		31	L9906530-01 S26-Lowry			✓					
46		32	02			✓					
47		33	03			✓					0419

Calibration STD's NA
Alternate Source/QC STD's NA
Reviewed By:

Comments:

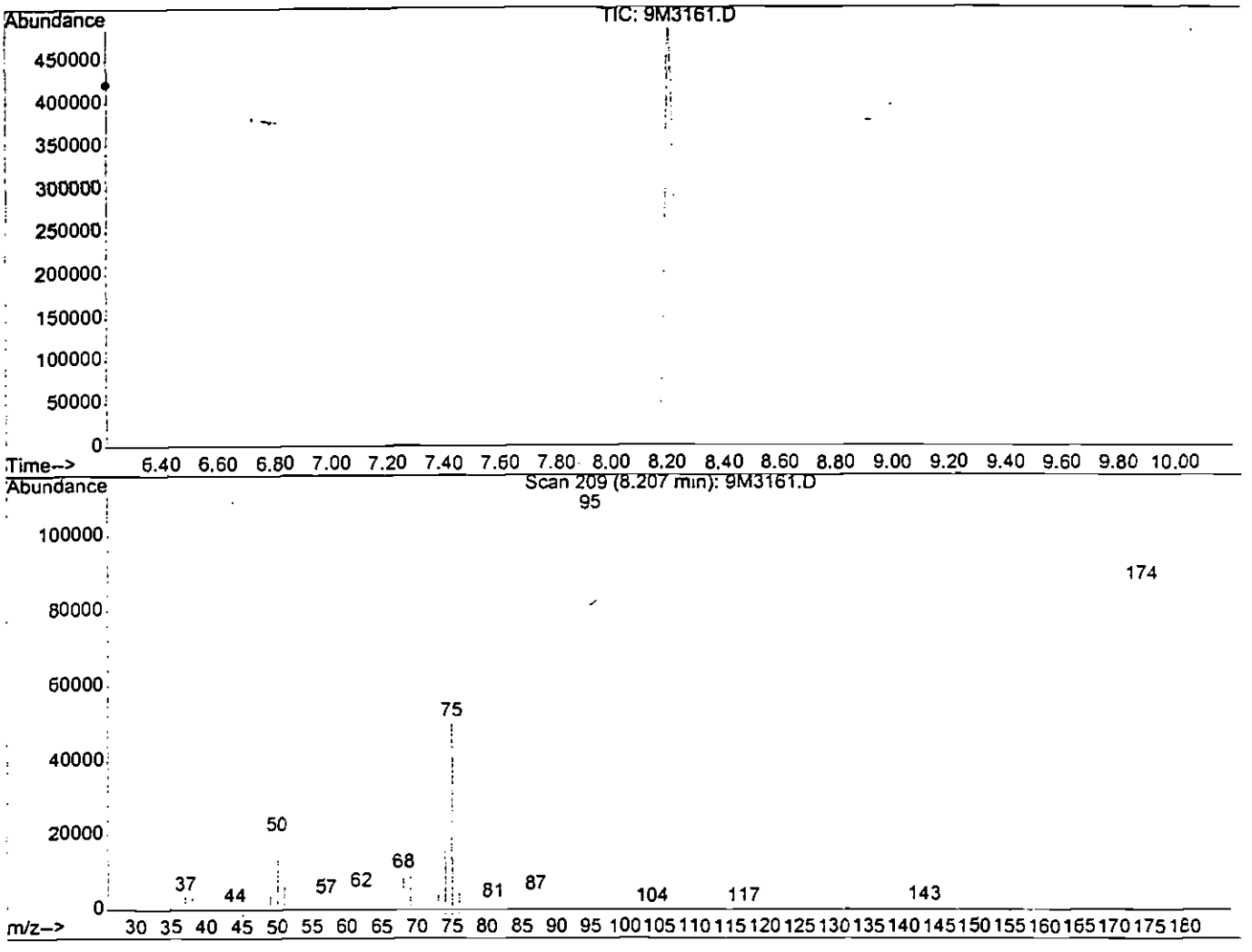
√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

Data File : C:\HPCHEM\1\DATA\060399\9M3161.D
Acq On : 3 Jun 1999 11:01
Sample : WG58737-01 50NG BFB
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 04/19/99

Vial: 1
Operator: JLH
Inst : HPMS_9
Multiplr: 1.00



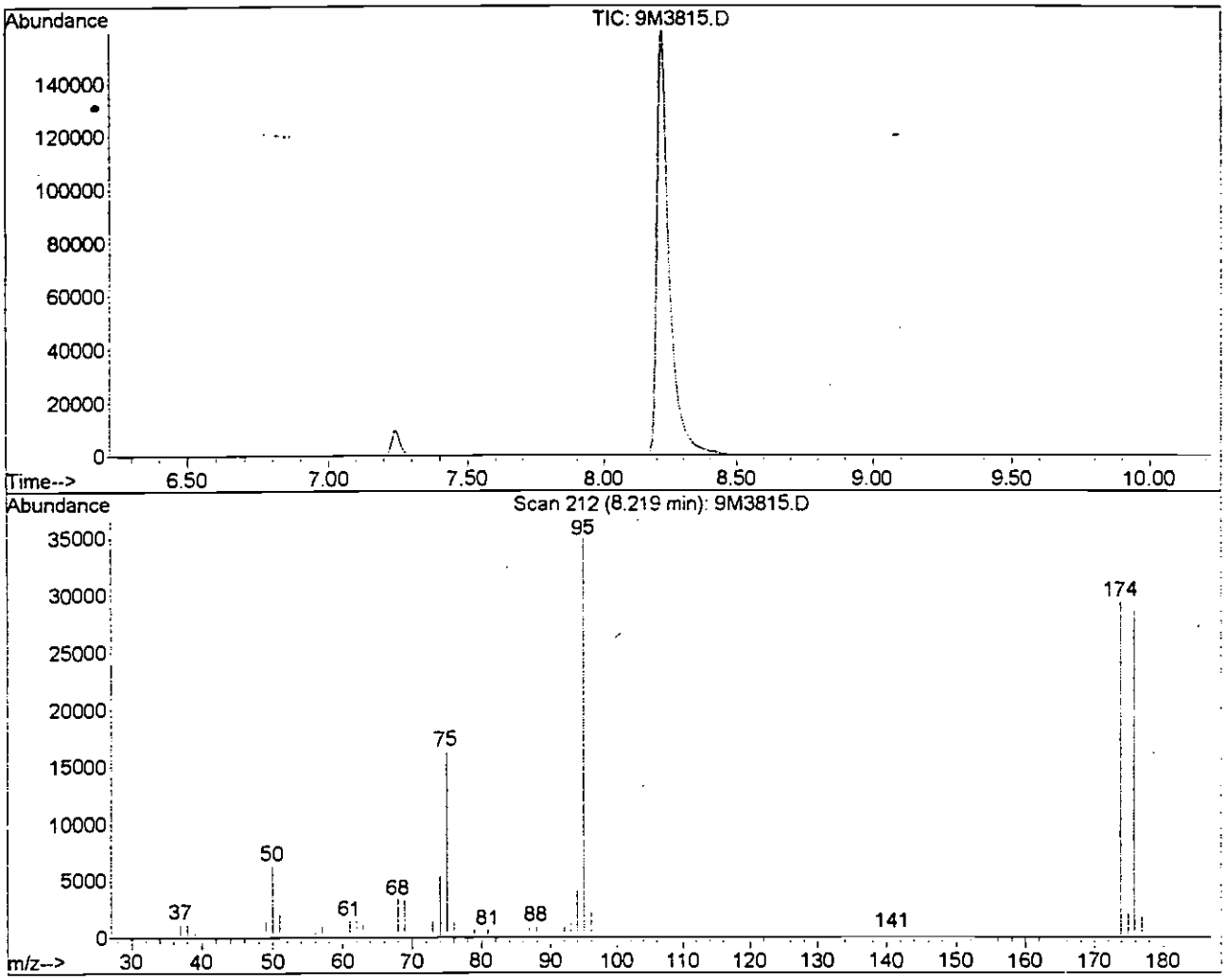
Spectrum Information: Scan 209

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	19720	PASS
75	95	30	60	47.6	50216	PASS
95	95	100	100	100.0	105584	PASS
96	95	5	9	7.3	7655	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.8	86392	PASS
175	174	5	9	7.4	6421	PASS
176	174	95	101	96.0	82896	PASS
177	176	5	9	6.8	5678	PASS

BFB

Data File : C:\HPCHEM\1\DATA\070299\9M3815.D
Acq On : 2 Jul 1999 10:02
Sample : WG60521-01 50NG BFB
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99

Vial: 1
Operator: JLH
Inst : HPMS_9
Multiplr: 1.00



Spectrum Information: Scan 212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	6327	PASS
75	95	30	60	46.4	16313	PASS
95	95	100	100	100.0	35136	PASS
96	95	5	9	6.5	2299	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.6	29384	PASS
175	174	5	9	7.2	2102	PASS
176	174	95	101	97.3	28600	PASS
177	176	5	9	6.3	1812	PASS

SVOC QA/QC Data

FPM

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SUN0404AA	L9904064-06
S13SUN010504AA	L9904064-23
S13SUN0502AA	L9904064-26

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 10-MAY-99

Title: Laboratory Manager

Order #99-04-064
May 11, 1999 8:49

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

This case is being resubmitted due to a regrouping of samples requested by the client. The AFCEE forms and instrument printouts used in lieu of forms have been reprinted and/or hand corrected as necessary.

In addition, we have added benzo(k)fluoranthene to the 8270 compound list.

Due to the changes in the data package we have renumbered the package at the top right corner of each page.

SEMIVOLATILE ORGANICS - 8270:

These samples were analyzed on different instruments on different days. One initial calibration failed to meet criteria for bis(2-chloroethyl)ether. One alternate source standard failed to meet criteria for benzo(a)pyrene. Another failed for benzo(a)pyrene and benzo(b)fluoranthene. One CCV failed for benzo(a)pyrene. Another failed for bis(2-chloroethyl)ether. The LCS yielded % recoveries for 4-chloroaniline and 3,3'-dichlorobenzidine that were outside advisory limits. The MS/MSD yielded % recoveries for benzo(b)fluoranthene, 4-chloroaniline, and 3,3'-dichlorobenzidine that were outside advisory limits. All results have been appropriately flagged.

METALS - 6010/7000:

Barium

Water

M = A serial dilution was performed for barium with the result within 10% of the original determination.

Soil

M = A post digestion spike was performed with the following recovery: Barium 87.8%

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

Calibration Table Report
Method: \BNA.M
Title: M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Calibration: Thu Apr 01 15:57:28 1999
HPMS4
Calibration Files

	MLS	4	10	20	50	80	100	120	140		
		4M13035.	M13036.	M13037.	M13034.	M13038.	M13039.	M13040.	M13041.D		
	Compound									Avg	%RSD
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	2.291	2.187	2.395	2.263	2.222	2.164	2.146	2.079	2.218	4.4
	n-Nitrosodimethylamine	1.444	1.353	1.498	1.463	1.424	1.387	1.379	1.346	1.412	3.9
S	2-Fluorophenol	1.713	1.606	1.748	1.610	1.555	1.500	1.465	1.343	1.568	8.4
	Aniline	2.746	2.587	2.763	2.494	2.362	2.249	2.219	2.151	2.447	9.7
S	Phenol-d5	2.488	2.271	2.378	2.134	1.988	1.882	1.830	1.740	2.089	13.0
C	Phenol	2.657	2.443	2.521	2.185	1.982	1.846	1.759	1.660	2.132	17.7
	bis(2-Chloroethyl)ether	1.984	1.840	1.950	1.736	1.672	1.561	1.526	1.488	1.720	11.1
	2-Chlorophenol	1.552	1.484	1.560	1.408	1.304	1.283	1.249	1.200	1.380	10.2
	1,3-Dichlorobenzene	1.708	1.536	1.645	1.468	1.342	1.285	1.243	1.209	1.429	13.2
C	1,4-Dichlorobenzene	1.717	1.605	1.669	1.451	1.347	1.255	1.245	1.165	1.432	14.7
	Benzyl Alcohol	1.181	1.107	1.202	1.085	1.024	0.955	0.959	0.938	1.057	9.8
	1,2-Dichlorobenzene	1.639	1.489	1.526	1.330	1.259	1.172	1.162	1.106	1.336	14.6
	2-Methylphenol	1.422	1.352	1.416	1.209	1.140	1.064	1.034	1.012	1.206	14.1
	bis(2-Chloroisopropyl)eth	3.409	3.194	3.294	2.938	2.651	2.511	2.456	2.357	2.851	14.5
	4-Methylphenol	2.125	1.946	2.096	1.825	1.699	1.537	1.533	1.495	1.782	14.3
P	n-Nitrosodipropylamine	1.433	1.361	1.441	1.302	1.217	1.184	1.112	1.148	1.275	10.0
	Hexachloroethane	0.708	0.658	0.692	0.637	0.607	0.576	0.550	0.540	0.621	10.2
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.592	0.553	0.600	0.554	0.519	0.519	0.477	0.465	0.535	9.2
	Nitrobenzene	0.588	0.548	0.596	0.536	0.505	0.490	0.457	0.441	0.520	11.0
	Isophorone	1.062	1.028	1.077	0.943	0.874	0.870	0.808	0.819	0.935	11.6
C	2-Nitrophenol	0.227	0.230	0.256	0.220	0.190	0.183	0.165	0.159	0.204	17.0
	2,4-Dimethylphenol	0.427	0.392	0.415	0.327	0.282	0.265	0.242	0.238	0.324	24.2
	bis(2-Chloroethoxy)methan	0.721	0.686	0.743	0.622	0.540	0.504	0.436	0.442	0.587	21.0
	Benzoic Acid		0.067	0.141	0.193	0.221	0.231	0.212	0.223	0.184	32.5
C	2,4-Dichlorophenol	0.350	0.343	0.370	0.328	0.306	0.292	0.278	0.277	0.318	11.0
	1,2,4-Trichlorobenzene	0.399	0.372	0.395	0.345	0.313	0.302	0.277	0.276	0.335	14.9
	Naphthalene	1.310	1.211	1.239	1.015	0.891	0.850	0.774	0.749	1.005	22.1
	4-Chloroaniline	0.721	0.667	0.702	0.592	0.529	0.516	0.466	0.461	0.582	18.0
C	Hexachlorobutadiene	0.204	0.199	0.214	0.184	0.171	0.169	0.154	0.149	0.181	13.1
C	4-Chloro-3-Methylphenol	0.427	0.403	0.429	0.383	0.352	0.339	0.313	0.316	0.370	12.7
	2-Methylnaphthalene	0.799	0.728	0.740	0.606	0.535	0.511	0.446	0.449	0.602	23.0
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.317	0.340	0.398	0.417	0.424	0.410	0.389	0.373	0.384	9.9
C	2,4,6-Trichlorophenol	0.443	0.427	0.504	0.503	0.473	0.463	0.442	0.438	0.462	6.4
	2,4,5-Trichlorophenol	0.492	0.465	0.551	0.528	0.500	0.481	0.456	0.426	0.487	8.2
S	2-Fluorobiphenyl	1.599	1.489	1.619	1.472	1.356	1.288	1.214	1.164	1.400	12.2
	2-Chloronaphthalene	1.451	1.331	1.396	1.324	1.178	1.158	1.073	1.039	1.244	12.3
	2-Nitroaniline	0.564	0.533	0.628	0.633	0.604	0.602	0.571	0.556	0.586	6.1
	Dimethylphthalate	1.732	1.594	1.665	1.640	1.506	1.522	1.435	1.369	1.558	7.8
	Acenaphthylene	2.331	2.105	2.341	2.102	1.908	1.893	1.734	1.647	2.008	12.8
	2,6-Dinitrotoluene	0.366	0.361	0.440	0.431	0.422	0.428	0.406	0.390	0.406	7.4
	3-Nitroaniline	0.536	0.525	0.620	0.625	0.589	0.590	0.554	0.533	0.571	7.0
C	Acenaphthene	1.365	1.287	1.382	1.227	1.135	1.069	1.008	0.936	1.176	14.1
P	2,4-Dinitrophenol	0.020	0.074	0.145	0.201	0.206	0.205	0.205	0.196	0.156	45.9
P	4-Nitrophenol	0.322	0.292	0.339	0.336	0.333	0.319	0.309	0.276	0.316	7.0
	Dibenzofuran	2.076	1.862	1.997	1.828	1.683	1.595	1.508	1.428	1.747	13.3
	2,4-Dinitrotoluene	0.481	0.480	0.557	0.565	0.553	0.546	0.524	0.501	0.526	6.6
	Diethylphthalate	1.828	1.546	1.695	1.523	1.452	1.423	1.356	1.325	1.519	11.3
	Fluorene	1.553	1.427	1.460	1.243	1.082	1.009	0.921	0.860	1.194	22.1
	4-Chlorophenyl Phenyl Eth	0.740	0.687	0.737	0.687	0.592	0.602	0.556	0.541	0.643	12.4
	4-Nitroaniline	0.479	0.452	0.493	0.425	0.364	0.335	0.305	0.293	0.393	20.2
	1,2-Diphenylhydrazine	2.176	1.968	2.073	1.927	1.805	1.708	1.610	1.659	1.866	10.9
S	2,4,6-Tribromophenol	0.199	0.213	0.248	0.251	0.244	0.237	0.214	0.200	0.226	9.6
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylpheno	0.066	0.124	0.166	0.195	0.190	0.186	0.171	0.155	0.157	27.5
C	n-Nitrosodiphenylamine	0.718	0.687	0.665	0.578	0.505	0.473	0.435	0.379	0.555	22.7

	4-Bromophenyl Phenyl Ethe	0.277	0.272	0.263	0.245	0.216	0.198	0.185	0.173	0.229	17.9
	Hexachlorobenzene	0.320	0.302	0.305	0.260	0.229	0.207	0.192	0.176	0.249	22.4
C	Pentachlorophenol	0.094	0.125	0.150	0.161	0.161	0.152	0.148	0.138	0.141	15.8
	Phenanthrene	1.438	1.300	1.263	1.056	0.920	0.859	0.806	0.755	1.050	24.4
	Anthracene	1.401	1.321	1.291	1.098	0.966	0.911	0.836	0.759	1.073	22.5
	Carbazole	1.393	1.293	1.282	1.062	0.978	0.872	0.842	0.798	1.065	21.7
	Di-n-Butyl Phthalate	1.816	1.736	1.678	1.402	1.244	1.125	1.062	0.985	1.381	23.7
	Fluoranthene	1.448	1.361	1.320	1.119	0.997	0.897	0.842	0.784	1.096	23.3
I	Chrysene-d12	ISTD									
	Benzidine	0.446	0.545	0.464	0.467	0.396	0.515	0.390	0.410	0.454	12.3
	Pyrene	1.693	1.626	1.577	1.325	1.190	1.092	1.043	0.974	1.315	21.6
S	p-Terphenyl-d14	1.182	1.135	1.077	0.874	0.779	0.704	0.632	0.572	0.869	27.2
	Butyl Benzyl Phthalate	0.875	0.828	0.855	0.767	0.701	0.661	0.613	0.576	0.734	15.5
	Benzo[a]anthracene	1.444	1.374	1.411	1.244	1.186	1.111	1.050	1.002	1.228	13.8
	3,3'-Dichlorobenzidine	0.541	0.552	0.567	0.531	0.495	0.477	0.446	0.416	0.503	10.7
	Chrysene	1.408	1.380	1.364	1.167	1.079	1.037	0.950	0.900	1.161	17.4
	bis(2-Ethylhexyl)phthalat	1.123	1.121	1.183	1.062	0.969	0.927	0.860	0.817	1.008	13.3
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.524	1.643	1.794	1.667	1.499	1.409	1.334	1.237	1.513	12.2
	Benzo[b]fluoranthene	1.212	1.132	1.300	1.124	1.060	0.972	1.014	0.888	1.088	12.2
	Benzo[k]fluoranthene	1.127	1.064	1.026	0.981	0.912	0.950	0.776	0.770	0.951	13.5
C	Benzo[a]pyrene	0.987	0.953	1.052	0.994	0.933	0.933	0.878	0.851	0.948	6.8
	Indeno[1,2,3-cd]pyrene	1.140	1.095	1.207	1.118	1.105	1.102	1.096	1.028	1.112	4.5
	Dibenz[ah]anthracene	0.889	0.858	0.950	0.879	0.863	0.857	0.846	0.799	0.868	4.9
	Benzo[ghi]perylene	0.952	0.905	1.031	1.004	1.023	1.051	1.067	1.000	1.004	5.3

Thu Apr 01 15:59:27 1999

Method: BNA.M
Title: M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Calibration: Mon Apr 09 11:21:25 1999
HPMS4
Calibration Files

	MLS	4	10	20	50	80	100	120	140		
		4M13122.	M13123.	M13124.	M13121.	M13125.	M13126.	M13127.	M13128.D		
	Compound									Avg	%RSD
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	2.215	2.116	2.240	2.047	2.156	2.053	2.026	1.977	2.104	4.5
	n-Nitrosodimethylamine	1.441	1.352	1.484	1.350	1.407	1.403	1.363	1.329	1.391	3.8
S	2-Fluorophenol	1.629	1.597	1.687	1.529	1.463	1.431	1.380	1.339	1.507	8.2
	Aniline	2.642	2.397	2.548	2.415	2.220	1.967	1.913	1.961	2.258	12.6
S	Phenol-d5	2.345	2.207	2.266	2.031	1.959	1.804	1.728	1.725	2.008	12.2
C	Phenol	2.498	2.307	2.322	2.067	1.957	1.823	1.742	1.700	2.052	14.5
	bis(2-Chloroethyl)ether	1.906	1.778	1.849	1.645	1.582	1.493	1.480	1.405	1.642	11.3
	2-Chlorophenol	1.475	1.395	1.447	1.295	1.252	1.184	1.123	1.135	1.288	10.8
	1,3-Dichlorobenzene	1.729	1.572	1.645	1.447	1.388	1.316	1.278	1.234	1.451	12.5
C	1,4-Dichlorobenzene	1.731	1.592	1.625	1.451	1.359	1.295	1.258	1.234	1.443	13.0
	Benzyl Alcohol	1.091	1.042	1.129	1.033	0.990	0.937	0.913	0.894	1.003	8.5
	1,2-Dichlorobenzene	1.598	1.484	1.514	1.380	1.280	1.189	1.142	1.151	1.342	13.2
	2-Methylphenol	1.401	1.271	1.347	1.217	1.122	1.047	1.024	1.000	1.179	13.0
	bis(2-Chloroisopropyl)eth	3.224	3.020	3.145	2.768	2.661	2.500	2.389	2.331	2.755	12.5
	4-Methylphenol	2.027	1.930	1.998	1.814	1.665	1.585	1.524	1.494	1.755	12.3
P	n-Nitrosodipropylamine	1.486	1.446	1.526	1.405	1.317	1.288	1.236	1.221	1.365	8.5
	Hexachloroethane	0.746	0.678	0.702	0.651	0.640	0.598	0.587	0.574	0.647	9.2
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.662	0.608	0.680	0.602	0.598	0.582	0.537	0.549	0.602	8.2
	Nitrobenzene	0.670	0.614	0.674	0.576	0.578	0.553	0.511	0.516	0.587	10.7
	Isophorone	1.148	1.097	1.164	1.017	0.972	0.955	0.917	0.901	1.021	10.1
C	2-Nitrophenol	0.255	0.237	0.255	0.212	0.196	0.187	0.181	0.178	0.213	15.1
	2,4-Dimethylphenol	0.404	0.365	0.376	0.318	0.285	0.279	0.271	0.269	0.321	16.7
	bis(2-Chloroethoxy)methan	0.725	0.675	0.712	0.611	0.526	0.507	0.482	0.475	0.589	17.8
	Benzoic Acid			0.185	0.216	0.226	0.230	0.228	0.252	0.223	9.7
C	2,4-Dichlorophenol	0.397	0.368	0.395	0.348	0.324	0.314	0.304	0.303	0.344	11.3
	1,2,4-Trichlorobenzene	0.451	0.412	0.436	0.369	0.345	0.336	0.321	0.319	0.374	14.1
	Naphthalene	1.291	1.170	1.197	1.021	0.902	0.888	0.867	0.850	1.023	17.0
	4-Chloroaniline	0.691	0.625	0.661	0.568	0.523	0.500	0.483	0.485	0.567	14.6
C	Hexachlorobutadiene	0.262	0.248	0.263	0.230	0.220	0.206	0.192	0.188	0.226	13.2
C	4-Chloro-3-Methylphenol	0.461	0.444	0.482	0.419	0.395	0.386	0.365	0.355	0.413	11.1
	2-Methylnaphthalene	0.814	0.734	0.753	0.637	0.575	0.552	0.535	0.520	0.640	17.7
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.396	0.403	0.464	0.445	0.441	0.428	0.410	0.410	0.425	5.6
C	2,4,6-Trichlorophenol	0.514	0.476	0.531	0.487	0.476	0.463	0.471	0.460	0.485	5.2
	2,4,5-Trichlorophenol	0.548	0.524	0.573	0.530	0.496	0.490	0.448	0.439	0.506	9.2
S	2-Fluorobiphenyl	1.731	1.573	1.610	1.420	1.346	1.310	1.242	1.212	1.430	13.2
	2-Chloronaphthalene	1.494	1.357	1.408	1.217	1.165	1.142	1.097	1.059	1.242	12.7
	2-Nitroaniline	0.630	0.621	0.689	0.633	0.638	0.612	0.607	0.576	0.626	5.1
	Dimethylphthalate	1.812	1.710	1.760	1.570	1.533	1.481	1.453	1.424	1.593	9.3
	Acenaphthylene	2.305	2.171	2.197	2.004	1.814	1.838	1.725	1.672	1.966	12.1
	2,6-Dinitrotoluene	0.390	0.404	0.436	0.411	0.391	0.389	0.376	0.366	0.395	5.5
	3-Nitroaniline	0.532	0.522	0.564	0.523	0.510	0.490	0.486	0.470	0.512	5.8
C	Acenaphthene	1.388	1.300	1.306	1.172	1.094	1.080	1.015	0.981	1.167	12.8
P	2,4-Dinitrophenol	0.085	0.142	0.191	0.219	0.219	0.223	0.219	0.216	0.189	26.5
P	4-Nitrophenol	0.393	0.366	0.396	0.391	0.366	0.334	0.314	0.303	0.358	10.2
	Dibenzofuran	2.058	1.975	1.951	1.768	1.597	1.601	1.521	1.461	1.742	13.2
	2,4-Dinitrotoluene	0.546	0.527	0.559	0.531	0.510	0.502	0.479	0.474	0.516	5.9
	Diethylphthalate	1.890	1.685	1.726	1.498	1.436	1.417	1.357	1.326	1.542	13.1
	Fluorene	1.608	1.466	1.431	1.213	1.121	1.065	0.997	0.925	1.228	20.1
	4-Chlorophenyl Phenyl Eth	0.816	0.765	0.779	0.694	0.634	0.609	0.589	0.556	0.680	14.3
	4-Nitroaniline	0.453	0.445	0.443	0.381	0.339	0.327	0.313	0.296	0.375	17.3
	1,2-Diphenylhydrazine	2.192	2.073	2.046	1.847	1.726	1.629	1.530	1.489	1.816	14.6
S	2,4,6-Tribromophenol	0.245	0.260	0.284	0.275	0.252	0.245	0.218	0.213	0.249	10.0
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylpheno	0.131	0.164	0.197	0.193	0.184	0.183	0.172	0.170	0.174	12.0
C	n-Nitrosodiphenylamine	0.716	0.667	0.639	0.540	0.498	0.476	0.450	0.434	0.552	19.5

	4-Bromophenyl Phenyl Ethe	0.297	0.283	0.294	0.248	0.234	0.216	0.204	0.194	0.246	16.7
	Hexachlorobenzene	0.344	0.328	0.340	0.286	0.250	0.238	0.211	0.200	0.275	21.2
C	Pentachlorophenol	0.126	0.153	0.182	0.179	0.177	0.175	0.161	0.157	0.164	11.6
	Phenanthrene	1.420	1.229	1.235	1.048	0.937	0.934	0.910	0.862	1.072	18.7
	Anthracene	1.398	1.287	1.311	1.058	0.975	0.946	0.824	0.806	1.076	21.3
	Carbazole	1.364	1.261	1.258	1.056	0.928	0.943	0.891	0.853	1.069	18.5
	Di-n-Butyl Phthalate	1.750	1.600	1.598	1.359	1.241	1.185	1.091	1.091	1.364	18.7
	Fluoranthene	1.494	1.399	1.387	1.171	1.056	1.013	0.951	0.898	1.171	19.5
I	Chrysene-d12	ISTD									
	Benzidine	0.434	0.402	0.405	0.515	0.339	0.310	0.240	0.335	0.372	22.7
	Pyrene	1.704	1.563	1.567	1.331	1.273	1.192	1.086	1.053	1.346	17.9
S	p-Terphenyl-d14	1.260	1.141	1.127	0.954	0.858	0.776	0.672	0.636	0.928	24.9
	Butyl Benzyl Phthalate	0.817	0.792	0.811	0.698	0.689	0.649	0.594	0.589	0.705	13.2
	Benzo[a]anthracene	1.443	1.353	1.402	1.276	1.213	1.123	1.085	1.067	1.245	11.7
	3,3'-Dichlorobenzidine	0.585	0.551	0.582	0.509	0.516	0.488	0.449	0.442	0.515	10.7
	Chrysene	1.422	1.266	1.315	1.158	1.128	1.071	0.989	0.984	1.167	13.5
	bis(2-Ethylhexyl)phthalat	1.063	1.040	1.094	0.956	0.947	0.868	0.834	0.819	0.953	11.2
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.603	1.564	1.627	1.759	1.336	1.328	1.214	1.258	1.461	13.8
	Benzo[b]fluoranthene	1.309	1.213	1.212	1.281	1.088	1.042	0.972	0.948	1.133	12.3
	Benzo[k]fluoranthene	1.033	1.054	1.139	1.258	0.909	0.941	0.972	0.948	1.032	11.4
C	Benzo[a]pyrene	1.004	0.989	1.057	1.153	0.932	0.945	0.857	0.870	0.976	10.0
	Indeno[1,2,3-cd]pyrene	0.979	0.942	1.056	1.085	0.891	0.898	0.849	0.889	0.949	8.9
	Dibenz[ah]anthracene	0.784	0.756	0.853	0.884	0.722	0.725	0.682	0.713	0.765	9.3
	Benzo[ghi]perylene	0.787	0.758	0.847	0.894	0.762	0.764	0.728	0.768	0.789	6.9

Mon Apr 19 15:37:36 1999

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 15:40:52 1999
Response via : Initial Calibration

Calibration Files
4 =4M13145.D 20 =4M13146.D 50 =4M13144.D
80 =4M13147.D 100 =4M13148.D 120 =4M13149.D

		Compound	4	20	50	80	100	120	Avg	%RS
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)		Pyridine	2.221	2.207	2.019	2.144	2.151	2.073	2.136	3.63
3)		n-Nitrosodimethylam	1.441	1.467	1.335	1.417	1.448	1.434	1.424	3.26
4)	S	2-Fluorophenol	1.599	1.613	1.407	1.498	1.473	1.413	1.501	5.94
5)		Aniline	2.449	2.319	2.061	2.056	1.892	1.914	2.115	10.56
6)	S	Phenol-d5	2.254	2.274	1.937	1.960	1.911	1.833	2.028	9.25
7)	C	Phenol	2.396	2.407	2.017	2.061	1.946	1.844	2.112	11.18
8)		bis(2-Chloroethyl)e	1.887	1.816	1.552	1.588	1.599	1.513	1.659	9.26
9)		2-Chlorophenol	1.432	1.405	1.234	1.254	1.226	1.218	1.295	7.47
10)		1,3-Dichlorobenzene	1.652	1.622	1.316	1.406	1.337	1.294	1.438	11.06
11)	C	1,4-Dichlorobenzene	1.660	1.597	1.338	1.418	1.334	1.291	1.440	10.63
12)		Benzyl Alcohol	1.075	1.117	0.970	0.999	0.999	0.957	1.019	6.18
13)	C	1,2-Dichlorobenzene	1.514	1.524	1.244	1.309	1.246	1.201	1.340	10.68
14)		2-Methylphenol	1.354	1.333	1.129	1.133	1.123	1.067	1.190	10.20
15)		bis(2-Chloroisoprop	3.339	3.217	2.716	2.823	2.740	2.620	2.909	10.16
16)		4-Methylphenol	1.981	1.988	1.660	1.713	1.659	1.601	1.767	9.75
17)	P	n-Nitrosodipropylam	1.489	1.546	1.293	1.356	1.361	1.315	1.394	7.25
18)		Hexachloroethane	0.690	0.704	0.599	0.630	0.609	0.594	0.638	7.49
19)	I	Naphthalene-d8	ISTD							
20)	S	Nitrobenzene-d5	0.619	0.637	0.563	0.580	0.590	0.584	0.596	4.63
21)		Nitrobenzene	0.629	0.635	0.546	0.557	0.565	0.547	0.580	7.08
22)		Isophorone	1.113	1.102	0.960	0.977	0.957	0.947	1.009	7.60
23)	C	2-Nitrophenol	0.252	0.254	0.207	0.206	0.196	0.187	0.217	13.20
24)		2,4-Dimethylphenol	0.472	0.355	0.292	0.285	0.274	0.268	0.324	24.33
25)		bis(2-Chloroethoxy)	0.703	0.678	0.568	0.565	0.525	0.493	0.589	14.29
26)		Benzoic Acid		0.191	0.225	0.243	0.239	0.183	0.216	12.83
27)	C	2,4-Dichlorophenol	0.369	0.368	0.324	0.324	0.314	0.304	0.334	8.35
28)		1,2,4-Trichlorobenz	0.410	0.399	0.328	0.339	0.329	0.319	0.354	11.27
29)		Naphthalene	1.252	1.164	0.950	0.942	0.898	0.856	1.010	15.75
30)		4-Chloroaniline	0.654	0.639	0.539	0.525	0.506	0.492	0.559	12.44
31)	C	Hexachlorobutadiene	0.236	0.240	0.201	0.208	0.199	0.192	0.213	9.47
32)	C	4-Chloro-3-Methylph	0.441	0.462	0.380	0.392	0.391	0.381	0.408	8.55
33)		2-Methylnaphthalene	0.790	0.729	0.582	0.563	0.547	0.523	0.622	17.62
34)	I	Acenaphthene-d10	ISTD							
35)	P	Hexachlorocyclopent	0.312	0.384	0.388	0.400	0.409	0.405	0.383	9.38
36)	C	2,4,6-Trichlorophen	0.468	0.493	0.443	0.454	0.486	0.454	0.466	4.20
37)		2,4,5-Trichlorophen	0.516	0.528	0.479	0.503	0.479	0.458	0.494	5.35
38)	S	2-Fluorobiphenyl	1.564	1.532	1.312	1.315	1.300	1.237	1.377	9.88
39)		2-Chloronaphthalene	1.369	1.338	1.134	1.169	1.152	1.101	1.211	9.38
40)		2-Nitroaniline	0.600	0.668	0.600	0.660	0.661	0.630	0.637	4.90
41)		Dimethylphthalate	1.710	1.726	1.466	1.516	1.525	1.469	1.569	7.54

(#) = Out of Range

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Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 15:40:52 1999
Response via : Initial Calibration

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4 =4M13145.D 20 =4M13146.D 50 =4M13144.D
80 =4M13147.D 100 =4M13148.D 120 =4M13149.D

		Compound	4	20	50	80	100	120	Avg	%RS
42)		Acenaphthylene	2.157	2.147	1.837	1.883	1.806	1.690	1.920	9.93
43)		2,6-Dinitrotoluene	0.378	0.421	0.383	0.400	0.400	0.376	0.393	4.34
44)		3-Nitroaniline	0.495	0.558	0.498	0.520	0.514	0.497	0.514	4.70
45)	C	Acenaphthene	1.309	1.265	1.084	1.129	1.101	1.037	1.154	9.38
46)	P	2,4-Dinitrophenol		0.189	0.213	0.235	0.242	0.231	0.222	9.61
47)	P	4-Nitrophenol	0.398	0.410	0.370	0.397	0.389	0.335	0.383	7.07
48)		Dibenzofuran	1.993	1.882	1.583	1.659	1.574	1.506	1.699	11.42
49)		2,4-Dinitrotoluene	0.505	0.544	0.492	0.520	0.515	0.487	0.511	4.04
50)		Diethylphthalate	1.769	1.657	1.360	1.456	1.415	1.363	1.503	11.33
51)		Fluorene	1.571	1.400	1.088	1.142	1.080	0.978	1.210	18.73
52)		4-Chlorophenyl Phen	0.742	0.734	0.624	0.646	0.622	0.573	0.657	10.26
53)		4-Nitroaniline	0.445	0.455	0.346	0.361	0.341	0.317	0.378	15.31
54)		1,2-Diphenylhydrazi	2.079	2.059	1.694	1.763	1.706	1.552	1.809	11.79
55)	S	2,4,6-Tribromopheno	0.228	0.255	0.232	0.249	0.240	0.223	0.238	5.28
56)	I	Phenanthrene-d10	----------ISTD----------							
57)		4,6-Dinitro-2-Methy	0.131	0.190	0.189	0.194	0.185	0.175	0.177	13.30
58)	C	n-Nitrosodiphenylam	0.681	0.646	0.517	0.518	0.473	0.442	0.546	17.61
59)		4-Bromophenyl Pheny	0.271	0.268	0.228	0.227	0.215	0.197	0.235	12.55
60)		Hexachlorobenzene	0.304	0.298	0.252	0.255	0.236	0.209	0.259	14.13
61)	C	Pentachlorophenol	0.115	0.164	0.164	0.174	0.174	0.158	0.158	13.91
62)		Phenanthrene	1.350	1.194	0.948	0.982	0.942	0.906	1.054	16.90
63)		Anthracene	1.323	1.218	0.995	1.019	0.944	0.811	1.052	17.79
64)		Carbazole	1.310	1.215	0.980	0.984	0.921	0.880	1.048	16.52
65)		Di-n-Butyl Phthalat	1.714	1.563	1.262	1.289	1.193	1.116	1.356	17.10
66)	C	Fluoranthene	1.380	1.313	1.033	1.084	1.044	0.916	1.128	15.89
67)	I	Chrysene-d12	----------ISTD----------							
68)		Benzidine	0.505	0.294	0.468	0.231	0.189	0.251	0.323	40.73
69)		Pyrene	1.658	1.568	1.282	1.279	1.186	1.090	1.344	16.53
70)	S	p-Terphenyl-d14	1.183	1.122	0.913	0.847	0.793	0.681	0.923	21.06
71)		Butyl Benzyl Phthal	0.817	0.808	0.680	0.676	0.626	0.604	0.702	12.90
72)		Benzo[a]anthracene	1.405	1.396	1.164	1.186	1.169	1.087	1.235	10.80
73)		3,3'-Dichlorobenzid	0.567	0.572	0.480	0.501	0.488	0.455	0.510	9.41
74)		Chrysene	1.381	1.299	1.113	1.139	1.074	1.009	1.169	12.10
75)		bis(2-Ethylhexyl)ph	1.107	1.071	0.921	0.914	0.851	0.837	0.950	11.90
76)	I	Perylene-d12	----------ISTD----------							
77)	C	Di-n-Octyl Phthalat	1.811	1.785	1.819	1.512	1.404	1.333	1.611	13.70
78)		Benzo[b]fluoranthen	1.210	1.332	1.228	1.138	1.143	1.106	1.193	6.90
79)		Benzo[k]fluoranthen	1.219	1.035	1.151	0.949	0.874	0.815	1.007	15.65
80)	C	Benzo[a]pyrene	1.038	1.049	1.088	0.962	0.944	0.886	0.995	7.67
81)		Indeno[1,2,3-cd]pyr	0.964	1.029	1.032	0.933	0.911	0.914	0.964	5.71
82)		Dibenz[ah]anthracen	0.786	0.827	0.841	0.753	0.736	0.732	0.779	5.99

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 15:40:52 1999
Response via : Initial Calibration

Calibration Files
4 =4M13145.D 20 =4M13146.D 50 =4M13144.D
80 =4M13147.D 100 =4M13148.D 120 =4M13149.D

	Compound	4	20	50	80	100	120	Avg	%RS
83)	Benzo[ghi]perylene	0.766	0.824	0.844	0.761	0.767	0.786	0.791	4.40

(#) = Out of Range

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG55692
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS4
Date of Initial Calibration: 1-Apr-99
2nd Source ID: ALT HPMS4 1-APR-99

Analyte	%D	Q
n-Nitroso-di-n-propylamine *	1.34	
Hexachlorocyclopentadiene *	27.04	*
2,4-Dinitrophenol *	6.22	
4-Nitrophenol *	5.72	
Phenol #	3.69	
1,4-Dichlorobenzene #	4.01	
2-Nitrophenol #	3.46	
2,4-Dichlorophenol #	2.76	
Hexachlorobutadiene #	6.71	
4-Chloro-3-methyl phenol #	3.71	
2,4,6-Trichlorophenol #	6.23	
Acenaphthene #	5.91	
n-Nitrosodiphenylamine #	4.44	
Pentachlorophenol #	7.61	
Fluoranthene #	6.42	
Di-n-octylphthalate #	9.45	
Benzo(a)pyrene #	5.87	
1,2,4-Trichlorobenzene	0.68	
1,2-Dichlorobenzene	7.34	
1,3-Dichlorobenzene	5.09	
2,4-Dinitrotoluene	11.31	
2,6-Dinitrotoluene	9.63	
2-Chloronaphthalene	4.82	
2-Methylnaphthalene	1.21	
2-Nitroaniline	7.17	
3-Nitroaniline	8.36	
3,3-Dichlorobenzidine	9.33	
4-Bromophenyl phenyl ether	4.49	
4-Chloroaniline	1.99	
4-Chlorophenyl phenyl ether	5.28	
4-Nitroaniline	0.68	
Acenaphthylene	8.50	
Anthracene	3.23	
Benz(a)anthracene	6.55	
Benzo(b)fluoranthene	0.90	
Benzo(g,h,i)perylene	4.45	
Benzyl alcohol	4.42	
Bis (2-chloroethoxy)methane	1.15	
Bis (2-chloroethyl) ether	4.56	
Bis (2-chloroisopropyl) ether	5.45	
Bis (2-ethylhexyl) phthalate	11.22	
Butyl Benzyl Phthalate	8.61	
Chrysene	2.33	
Di-n-butylphthalate	5.85	
Dibenz (a,h) Anthracene	11.02	
Dibenzofuran	4.05	
Diethyl phthalate	0.92	
Dimethyl phthalate	7.35	
Fluorene	0.20	
Hexachlorobenzene	7.93	
Hexachloroethane	6.71	
Indeno[1,2,3-cd]pyrene	3.78	
Isophorone	8.94	
n-Nitrosodimethylamine	3.42	
Naphthalene	8.02	
Nitrobenzene	1.91	
Phenanthrene	6.81	
Pyrene	11.46	
2,4,5-Trichlorophenol	3.87	
2,4-Dimethylphenol	3.91	
2-Chlorophenol	1.98	
2-Methylphenol	5.43	
4,6-Dinitro-2-methylphenol	2.48	
4-Methylphenol	2.55	
Benzoic acid	9.87	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG55692
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS4
Date of Initial Calibration: 7-Apr-99
2nd Source ID: ALT HPMS4 7-APR-99

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	4.70	
Hexachlorocyclopentadiene *	28.50	*
2,4-Dinitrophenol *	2.00	
4-Nitrophenol *	20.00	
Phenol #	2.40	
1,4-Dichlorobenzene #	3.90	
2-Nitrophenol #	0.90	
2,4-Dichlorophenol #	5.00	
Hexachlorobutadiene #	26.20	*
4-Chloro-3-methyl phenol #	10.40	
2,4,6-Trichlorophenol #	7.90	
Acenaphthene #	2.80	
n-Nitrosodiphenylamine #	7.00	
Pentachlorophenol #	3.70	
Fluoranthene #	5.70	
Di-n-octylphthalate #	19.50	
Benzo(a)pyrene #	25.30	*
1,2,4-Trichlorobenzene	7.90	
1,2-Dichlorobenzene	7.90	
1,3-Dichlorobenzene	4.80	
2,4-Dinitrotoluene	0.40	
2,6-Dinitrotoluene	2.70	
2-Chloronaphthalene	1.80	
2-Methylnaphthalene	2.20	
2-Nitroaniline	9.50	
3-Nitroaniline	6.50	
3,3-Dichlorobenzidine	4.60	
4-Bromophenyl phenyl ether	9.40	
4-Chloroaniline	0.80	
4-Chlorophenyl phenyl ether	5.70	
4-Nitroaniline	6.90	
Acenaphthylene	3.20	
Anthracene	0.40	
Benz(a)anthracene	2.20	
Benzo(b)fluoranthene	17.70	
Benzo(g,h,i)perylene	6.90	
Benzyl alcohol	1.80	
Bis (2-chloroethoxy)methane	3.10	
Bis (2-chloroethyl) ether	1.30	
Bis (2-chloroisopropyl) ether	1.40	
Bis (2-ethylhexyl) phthalate	5.20	
Butyl Benzyl Phthalate	6.50	
Chrysene	1.20	
Di-n-butylphthalate	4.30	
Dibenz (a,h) Anthracene	8.30	
Dibenzofuran	4.30	
Diethyl phthalate	4.50	
Dimethyl phthalate	2.60	
Fluorene	2.30	
Hexachlorobenzene	14.10	
Hexachloroethane	5.50	
Indeno(1,2,3-cd)pyrene	0.90	
Isophorone	13.20	
n-Nitrosodimethylamine	4.70	
Naphthalene	0.50	
Nitrobenzene	11.10	
Phenanthrene	3.10	
Pyrene	4.30	
2,4,5-Trichlorophenol	0.70	
2,4-Dimethylphenol	1.00	
2-Chlorophenol	3.50	
2-Methylphenol	4.30	
4,6-Dinitro-2-methylphenol	6.90	
4-Methylphenol	0.10	
Benzoic acid	7.00	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG55692
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS4
Date of Initial Calibration: 11-Apr-99
2nd Source ID: ALT HPMS4 11-APR-99

Analyte	%D	Q
n-Nitroso-di-n-propylamine *	9.09	
Hexachlorocyclopentadiene *	33.87	*
2,4-Dinitrophenol *	0.11	
4-Nitrophenol *	7.03	
Phenol #	6.54	
1,4-Dichlorobenzene #	7.89	
2-Nitrophenol #	1.78	
2,4-Dichlorophenol #	3.02	
Hexachlorobutadiene #	8.58	
4-Chloro-3-methyl phenol #	4.19	
2,4,6-Trichlorophenol #	8.12	
Acenaphthene #	6.85	
n-Nitrosodiphenylamine #	2.38	
Pentachlorophenol #	13.84	
Fluoranthene #	8.24	
Di-n-octylphthalate #	18.00	
Benzo(a)pyrene #	26.98	*
1,2,4-Trichlorobenzene	1.38	
1,2-Dichlorobenzene	11.02	
1,3-Dichlorobenzene	6.37	
2,4-Dinitrotoluene	8.86	
2,6-Dinitrotoluene	12.27	
2-Chloronaphthalene	7.77	
2-Methylnaphthalene	11.44	
2-Nitroaniline	8.94	
3-Nitroaniline	9.50	
3,3-Dichlorobenzidine	8.51	
4-Bromophenyl phenyl ether	1.38	
4-Chloroaniline	4.36	
4-Chlorophenyl phenyl ether	7.02	
4-Nitroaniline	2.80	
Acenaphthylene	8.37	
Anthracene	0.54	
Benz(a)anthracene	6.88	
Benzo(b)fluoranthene	26.35	*
Benzo(g,h,i)perylene	20.10	
Benzyl alcohol	7.75	
Bis (2-chloroethoxy)methane	5.97	
Bis (2-chloroethyl) ether	10.42	
Bis (2-chloroisopropyl) ether	12.25	
Bis (2-ethylhexyl) phthalate	7.39	
Butyl Benzyl Phthalate	13.04	
Chrysene	8.35	
Di-n-butylphthalate	5.45	
Dibenz (a,h) Anthracene	21.22	
Dibenzofuran	3.95	
Diethyl phthalate	3.27	
Dimethyl phthalate	6.76	
Fluorene	6.67	
Hexachlorobenzene	10.67	
Hexachloroethane	9.33	
Indeno(1,2,3-cd)pyrene	18.43	
Isophorone	12.18	
n-Nitrosodimethylamine	12.19	
Naphthalene	6.59	
Nitrobenzene	12.96	
Phenanthrene	6.46	
Pyrene	10.52	
2,4,5-Trichlorophenol	2.47	
2,4-Dimethylphenol	7.94	
2-Chlorophenol	10.53	
2-Methylphenol	13.46	
4,6-Dinitro-2-methylphenol	6.76	
4-Methylphenol	13.68	
Benzoic acid	9.48	

Comments:

Data File : C:\HPCHEM\1\DATA\040699\4M13101.D
Acq On : 6 Apr 1999 11:06
Sample : WG55568-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: MLS
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNASOIL.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Update : Tue Apr 06 09:57:10 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1333.333	1333.333	0.0	102	0.00
2		Pyridine	1666.667	1608.259	3.5	97	0.00
3		n-Nitrosodimethylamine	1666.667	1661.629	0.3	98	0.00
4	S	2-Fluorophenol	1666.667	1619.743	2.8	97	0.00
5		Aniline	1666.667	1546.825	7.2	93	0.02
6	S	Phenol-d5	1666.667	1604.802	3.7	96	0.00
7	C	Phenol	1666.667	1660.023	0.4	101	0.00
8		bis(2-Chloroethyl)ether	1666.667	1577.375	5.4	96	0.00
9		2-Chlorophenol	1666.667	1623.737	2.6	98	0.00
10		1,3-Dichlorobenzene	1666.667	1712.280	-2.7	102	0.00
11	C	1,4-Dichlorobenzene	1666.667	1709.574	-2.6	103	0.00
12		Benzyl Alcohol	1666.667	1615.817	3.1	97	0.00
13	C	1,2-Dichlorobenzene	1666.667	1688.801	-1.3	104	0.00
14		2-Methylphenol	1666.667	1671.275	-0.3	102	0.00
15		bis(2-Chloroisopropyl)ether	1666.667	1604.362	3.7	96	0.00
16		4-Methylphenol	1666.667	1631.399	2.1	98	0.00
17	P	n-Nitrosodipropylamine	1666.667	1747.236	-4.8	105	0.00
18		Hexachloroethane	1666.667	1759.588	-5.6	105	0.00
19	I	Naphthalene-d8	1333.333	1333.333	0.0	103	0.00
20	S	Nitrobenzene-d5	1666.667	1752.506	-5.2	104	0.00
21		Nitrobenzene	1666.667	1766.419	-6.0	106	0.00
22		Isophorone	1666.667	1733.359	-4.0	106	0.00
23	C	2-Nitrophenol	1666.667	1678.808	-0.7	100	0.00
24		2,4-Dimethylphenol	1666.667	1621.016	2.7	97	0.00
25		bis(2-Chloroethoxy)methane	1666.667	1676.332	-0.6	100	0.00
26		Benzoic Acid	1666.667	1668.036	-0.1	117	0.00
27	C	2,4-Dichlorophenol	1666.667	1734.445	-4.1	103	0.00
28		1,2,4-Trichlorobenzene	1666.667	1816.739	-9.0	108	0.00
29		Naphthalene	1666.667	1600.821	4.0	97	0.00
30		4-Chloroaniline	1666.667	1552.097	6.9	95	0.00
31	C	Hexachlorobutadiene	1666.667	1968.767	-18.1	119	0.00
32	C	4-Chloro-3-Methylphenol	1666.667	1828.143	-9.7	109	0.00
33		2-Methylnaphthalene	1666.667	1728.595	-3.7	104	0.00
34	I	Acenaphthene-d10	1333.333	1333.333	0.0	115	0.00
35	P	Hexachlorocyclopentadiene	1666.667	1949.675	-17.0	123	0.00
36	C	2,4,6-Trichlorophenol	1666.667	1789.967	-7.4	113	0.00
37		2,4,5-Trichlorophenol	1666.667	1766.174	-6.0	112	0.00
38	S	2-Fluorobiphenyl	1666.667	1693.997	-1.6	111	0.00
39		2-Chloronaphthalene	1666.667	1660.338	0.4	107	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040699\4M13101.D Vial: 2
Acq On : 6 Apr 1999 11:06 Operator: MLS
Sample : WG55568-02 50PPM BNA STD S40-35-04 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNASOIL.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Update : Tue Apr 06 09:57:10 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	1666.667	1733.325	-4.0	111	0.00
41		Dimethylphthalate	1666.667	1715.140	-2.9	112	0.00
42		Acenaphthylene	1666.667	1639.415	1.6	108	0.00
43		2,6-Dinitrotoluene	1666.667	1722.066	-3.3	112	0.00
44		3-Nitroaniline	1666.667	1549.719	7.0	97	0.00
45	C	Acenaphthene	1666.667	1660.374	0.4	110	0.00
46	P	2,4-Dinitrophenol	1666.667	1749.913	-5.0	120	0.00
47	P	4-Nitrophenol	1666.667	1888.635	-13.3	122	0.00
48		Dibenzofuran	1666.667	1663.826	0.2	110	0.00
49		2,4-Dinitrotoluene	1666.667	1725.645	-3.5	111	0.00
50		Diethylphthalate	1666.667	1671.573	-0.3	115	0.00
51		Fluorene	1666.667	1725.248	-3.5	116	0.00
52		4-Chlorophenyl Phenyl Ether	1666.667	1821.351	-9.3	117	0.00
53		4-Nitroaniline	1666.667	1613.908	3.2	107	0.00
54		1,2-Diphenylhydrazine	1666.667	1653.687	0.8	110	0.00
[redacted]	S	2,4,6-Tribromophenol	1666.667	2031.586	-21.9	126	0.00
56	I	Phenanthrene-d10	1333.333	1333.333	0.0	117	0.00
57		4,6-Dinitro-2-Methylphenol	1666.667	1621.985	2.7	118	0.00
58	C	n-Nitrosodiphenylamine	1666.667	1553.912	6.8	111	0.00
59		4-Bromophenyl Phenyl Ether	1666.667	1790.798	-7.4	122	0.00
60		Hexachlorobenzene	1666.667	1916.629	-15.0	130	0.00
61	C	Pentachlorophenol	1666.667	1770.115	-6.2	127	0.00
62		Phenanthrene	1666.667	1650.561	1.0	114	0.00
63		Anthracene	1666.667	1568.413	5.9	112	0.00
64		Carbazole	1666.667	1689.535	-1.4	118	0.00
65		Di-n-Butyl Phthalate	1666.667	1608.189	3.5	113	0.00
66	C	Fluoranthene	1666.667	1797.158	-7.8	123	0.00
67	I	Chrysene-d12	1333.333	1333.333	0.0	119	0.00
68		Benzidine	1666.667	1818.729	-9.1	126	0.00
69		Pyrene	1666.667	1712.727	-2.8	121	0.00
70	S	p-Terphenyl-d14	1666.667	1844.047	-10.6	131	0.00
71		Butyl Benzyl Phthalate	1666.667	1492.936	10.4	108	0.00
72		Benzo[a]anthracene	1666.667	1721.648	-3.3	122	0.00
73		3,3'-Dichlorobenzidine	1666.667	1798.207	-7.9	122	0.00
74		Chrysene	1666.667	1686.063	-1.2	122	0.00
75		bis(2-Ethylhexyl)phthalate	1666.667	1570.412	5.8	107	0.00
76	I	Perylene-d12	1333.333	1333.333	0.0	125	0.00
[redacted]	C	Di-n-Octyl Phthalate	1666.667	1567.068	6.0	107	0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040699\4M13101.D Vial: 2
Acq On : 6 Apr 1999 11:06 Operator: MLS
Sample : WG55568-02 50PPM BNA STD S40-35-04 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNASOIL.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Update : Tue Apr 06 09:57:10 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1666.667	1639.155	1.7	119	0.02
79		Benzo[k]fluoranthene	1666.667	1730.547	-3.8	126	0.02
80	C	Benzo[a]pyrene	1666.667	1703.087	-2.2	122	0.02
81		Indeno[1,2,3-cd]pyrene	1666.667	1725.063	-3.5	129	0.02
82		Dibenz[ah]anthracene	1666.667	1742.108	-4.5	129	0.03
83		Benzo[ghi]perylene	1666.667	1724.731	-3.5	129	0.03

507 297

Data File : C:\HPCHEM\1\DATA\040999\4M13131.D
Acq On : 9 Apr 1999 8:27
Sample : WG55730-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Update : Fri Apr 09 11:21:25 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.00
2		Pyridine	50.000	49.479	1.0	114	0.04
3		n-Nitrosodimethylamine	50.000	48.377	3.2	111	0.04
4	S	2-Fluorophenol	50.000	47.507	5.0	105	0.02
5		Aniline	50.000	49.156	1.7	103	-0.05
6	S	Phenol-d5	50.000	48.160	3.7	106	0.00
7	C	Phenol	50.000	49.507	1.0	110	0.00
8		bis(2-Chloroethyl)ether	50.000	47.901	4.2	107	0.00
9		2-Chlorophenol	50.000	47.508	5.0	106	0.00
10		1,3-Dichlorobenzene	50.000	46.051	7.9	103	0.00
11	C	1,4-Dichlorobenzene	50.000	46.716	6.6	104	0.00
12		Benzyl Alcohol	50.000	47.867	4.3	104	0.00
13	C	1,2-Dichlorobenzene	50.000	46.981	6.0	102	0.00
14		2-Methylphenol	50.000	47.255	5.5	102	0.00
15		bis(2-Chloroisopropyl)ether	50.000	49.438	1.1	110	-0.01
16		4-Methylphenol	50.000	46.803	6.4	101	-0.01
17	P	n-Nitrosodipropylamine	50.000	46.636	6.7	101	-0.01
18		Hexachloroethane	50.000	46.313	7.4	103	-0.01
19	I	Naphthalene-d8	40.000	40.000	0.0	112	0.00
20	S	Nitrobenzene-d5	50.000	46.280	7.4	104	0.00
21		Nitrobenzene	50.000	46.547	6.9	106	0.00
22		Isophorone	50.000	46.120	7.8	104	0.00
23	C	2-Nitrophenol	50.000	55.952	-11.9	110	0.00
24		2,4-Dimethylphenol	50.000	54.894	-9.8	107	0.00
25		bis(2-Chloroethoxy)methane	50.000	48.795	2.4	104	0.00
26		Benzoic Acid	50.000	43.008	14.0	106	0.00
27	C	2,4-Dichlorophenol	50.000	46.093	7.8	102	0.00
28		1,2,4-Trichlorobenzene	50.000	45.152	9.7	103	0.00
29		Naphthalene	50.000	52.939	-5.9	103	0.00
30		4-Chloroaniline	50.000	46.810	6.4	105	-0.01
31	C	Hexachlorobutadiene	50.000	43.538	12.9	96	0.00
32	C	4-Chloro-3-Methylphenol	50.000	46.223	7.6	102	-0.01
33		2-Methylnaphthalene	50.000	52.581	-5.2	101	-0.01
34	I	Acenaphthene-d10	40.000	40.000	0.0	114	0.00
35	P	Hexachlorocyclopentadiene	50.000	44.037	11.9	95	0.01
36	C	2,4,6-Trichlorophenol	50.000	44.957	10.1	102	0.00
37		2,4,5-Trichlorophenol	50.000	47.139	5.7	102	0.00
38	S	2-Fluorobiphenyl	50.000	44.948	10.1	103	0.00
39		2-Chloronaphthalene	50.000	45.582	8.8	106	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040999\4M13131.D Vial: 2
Acq On : 9 Apr 1999 8:27 Operator: mdc
Sample : WG55730-02 50PPM BNA STD S40-35-04 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Update : Fri Apr 09 11:21:25 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	47.767	4.5	107	0.00
41		Dimethylphthalate	50.000	46.301	7.4	107	0.00
42		Acenaphthylene	50.000	45.830	8.3	102	0.01
43		2,6-Dinitrotoluene	50.000	47.363	5.3	104	0.01
44		3-Nitroaniline	50.000	48.288	3.4	107	0.00
45	C	Acenaphthene	50.000	47.085	5.8	106	0.00
46	P	2,4-Dinitrophenol	50.000	46.709	6.6	106	0.00
47	P	4-Nitrophenol	50.000	50.197	-0.4	104	0.00
48		Dibenzofuran	50.000	45.259	9.5	101	0.00
49		2,4-Dinitrotoluene	50.000	46.832	6.3	103	0.00
50		Diethylphthalate	50.000	44.448	11.1	104	0.00
51		Fluorene	50.000	45.136	9.7	106	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	45.852	8.3	102	0.00
53		4-Nitroaniline	50.000	49.444	1.1	110	0.00
54		1,2-Diphenylhydrazine	50.000	47.156	5.7	105	0.00
55	S	2,4,6-Tribromophenol	50.000	47.232	5.5	97	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	112	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	50.053	-0.1	101	0.00
58	C	n-Nitrosodiphenylamine	50.000	46.901	6.2	106	0.00
59		4-Bromophenyl Phenyl Ether	50.000	44.431	11.1	102	0.00
60		Hexachlorobenzene	50.000	44.709	10.6	101	0.00
61	C	Pentachlorophenol	50.000	49.097	1.8	100	0.00
62		Phenanthrene	50.000	54.783	-9.6	106	0.00
63		Anthracene	50.000	44.421	11.2	103	0.00
64		Carbazole	50.000	47.031	5.9	104	0.00
65		Di-n-Butyl Phthalate	50.000	47.229	5.5	105	0.00
66	C	Fluoranthene	50.000	45.870	8.3	103	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	109	0.00
68		Benzidine	50.000	65.154	-30.3	87	0.00
69		Pyrene	50.000	45.892	8.2	104	0.00
70	S	p-Terphenyl-d14	50.000	44.788	10.4	101	0.00
71		Butyl Benzyl Phthalate	50.000	46.876	6.2	104	0.00
72		Benzo[a]anthracene	50.000	47.060	5.9	101	0.00
73		3,3'-Dichlorobenzidine	50.000	47.373	5.3	105	0.00
74		Chrysene	50.000	47.406	5.2	105	0.01
75		bis(2-Ethylhexyl)phthalate	50.000	47.136	5.7	103	0.00
76	I	Perylene-d12	40.000	40.000	0.0	109	0.00
77	C	Di-n-Octyl Phthalate	50.000	57.098	-14.2	104	-0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040999\4M13131.D
Acq On : 9 Apr 1999 8:27
Sample : WG55730-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Update : Fri Apr 09 11:21:25 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

	•	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	55.599	-11.2	107	-0.02
79		Benzo[k]fluoranthene	50.000	52.673	-5.3	94	0.00
80	C	Benzo[a]pyrene	50.000	53.829	-7.7	100	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	54.628	-9.3	104	0.02
82		Dibenz[ah]anthracene	50.000	54.709	-9.4	103	0.03
83		Benzo[ghi]perylene	50.000	54.627	-9.3	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\041199\4M13152.D
Acq On : 11 Apr 1999 16:37
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 10
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 15:40:52 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		• Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	107	0.00
2		Pyridine	50.000	48.291	3.4	109	0.00
3		n-Nitrosodimethylamine	50.000	48.646	2.7	111	0.01
4	S	2-Fluorophenol	50.000	47.410	5.2	108	0.00
5		Aniline	50.000	49.770	0.5	109	0.00
6	S	Phenol-d5	50.000	47.540	4.9	106	0.00
7	C	Phenol	50.000	47.623	4.8	107	0.00
8		bis(2-Chloroethyl)ether	50.000	48.687	2.6	111	0.00
9		2-Chlorophenol	50.000	46.689	6.6	105	0.00
10		1,3-Dichlorobenzene	50.000	47.121	5.8	110	0.01
11	C	1,4-Dichlorobenzene	50.000	46.111	7.8	106	0.00
12		Benzyl Alcohol	50.000	47.954	4.1	108	0.00
13	C	1,2-Dichlorobenzene	50.000	47.512	5.0	109	0.00
14		2-Methylphenol	50.000	47.478	5.0	107	0.00
15		bis(2-Chloroisopropyl)ether	50.000	48.685	2.6	111	0.00
16		4-Methylphenol	50.000	48.708	2.6	111	0.00
17	P	n-Nitrosodipropylamine	50.000	48.749	2.5	112	0.00
18		Hexachloroethane	50.000	47.730	4.5	109	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	106	0.00
20	S	Nitrobenzene-d5	50.000	49.423	1.2	111	0.00
21		Nitrobenzene	50.000	49.161	1.7	111	0.00
22		Isophorone	50.000	48.781	2.4	109	0.00
23	C	2-Nitrophenol	50.000	48.399	3.2	108	0.00
24		2,4-Dimethylphenol	50.000	49.140	1.7	107	0.00
25		bis(2-Chloroethoxy)methane	50.000	49.050	1.9	108	0.00
26		Benzoic Acid	50.000	55.331	-10.7	113	0.01
27	C	2,4-Dichlorophenol	50.000	47.735	4.5	105	0.00
28		1,2,4-Trichlorobenzene	50.000	48.830	2.3	112	0.00
29		Naphthalene	50.000	52.304	-4.6	105	0.00
30		4-Chloroaniline	50.000	47.392	5.2	105	0.00
31	C	Hexachlorobutadiene	50.000	48.849	2.3	110	0.00
32	C	4-Chloro-3-Methylphenol	50.000	48.243	3.5	110	0.00
33		2-Methylnaphthalene	50.000	52.922	-5.8	105	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	106	0.00
35	P	Hexachlorocyclopentadiene	50.000	51.974	-3.9	108	0.00
36	C	2,4,6-Trichlorophenol	50.000	48.407	3.2	108	0.00
37		2,4,5-Trichlorophenol	50.000	49.776	0.4	108	0.00
38	S	2-Fluorobiphenyl	50.000	48.530	2.9	108	0.00
39		2-Chloronaphthalene	50.000	47.682	4.6	107	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\041199\4M13152.D Vial: 10
Acq On : 11 Apr 1999 16:37 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 15:40:52 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	49.565	0.9	111	0.00
41		Dimethylphthalate	50.000	48.510	3.0	110	0.00
42		Acenaphthylene	50.000	47.804	4.4	106	0.00
43		2,6-Dinitrotoluene	50.000	49.907	0.2	108	0.00
44		3-Nitroaniline	50.000	48.719	2.6	106	0.00
45	C	Acenaphthene	50.000	48.041	3.9	108	0.00
46	P	2,4-Dinitrophenol	50.000	48.372	3.3	107	0.00
47	P	4-Nitrophenol	50.000	49.615	0.8	109	0.00
48		Dibenzofuran	50.000	46.787	6.4	106	0.00
49		2,4-Dinitrotoluene	50.000	50.091	-0.2	110	0.00
50		Diethylphthalate	50.000	46.414	7.2	108	0.00
51		Fluorene	50.000	45.843	8.3	107	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	48.400	3.2	108	0.00
53		4-Nitroaniline	50.000	45.747	8.5	106	0.00
54		1,2-Diphenylhydrazine	50.000	48.896	2.2	110	0.00
55	S	2,4,6-Tribromophenol	50.000	49.898	0.2	108	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	106	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	52.619	-5.2	105	0.00
58	C	n-Nitrosodiphenylamine	50.000	46.675	6.7	106	0.00
59		4-Bromophenyl Phenyl Ether	50.000	48.259	3.5	105	0.00
60		Hexachlorobenzene	50.000	48.712	2.6	106	0.00
61	C	Pentachlorophenol	50.000	53.178	-6.4	108	0.00
62		Phenanthrene	50.000	51.742	-3.5	109	0.00
63		Anthracene	50.000	44.996	10.0	107	0.00
64		Carbazole	50.000	48.733	2.5	109	0.00
65		Di-n-Butyl Phthalate	50.000	46.725	6.5	107	0.00
66	C	Fluoranthene	50.000	46.155	7.7	109	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	114	0.00
68		Benzidine	50.000	68.724	-37.4	108	0.00
69		Pyrene	50.000	44.782	10.4	110	0.00
70	S	p-Terphenyl-d14	50.000	42.486	15.0	104	0.00
71		Butyl Benzyl Phthalate	50.000	47.309	5.4	111	0.00
72		Benzo[a]anthracene	50.000	47.723	4.6	115	0.00
73		3,3'-Dichlorobenzidine	50.000	47.709	4.6	115	0.00
74		Chrysene	50.000	46.353	7.3	111	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	47.470	5.1	111	0.00
76	I	Perylene-d12	40.000	40.000	0.0	121	0.00
77	C	Di-n-Octyl Phthalate	50.000	52.216	-4.4	112	0.00

(#) = Out of Range

507 301

Data File : C:\HPCHEM\1\DATA\041199\4M13152.D Vial: 10
Acq On : 11 Apr 1999 16:37 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 15:40:52 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

	•	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	49.225	1.5	115	0.00
79		Benzo[k]fluoranthene	50.000	55.351	-10.7	123	0.00
80	C	Benzo[a]pyrene	50.000	53.231	-6.5	117	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	51.591	-3.2	116	0.01
82		Dibenz[ah]anthracene	50.000	51.484	-3.0	115	0.01
83		Benzo[ghi]perylene	50.000	51.735	-3.5	117	0.01

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55494-02

Initial Calibration HPMS4 1-APR-99

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	0.033	0.70	
1,2-Dichlorobenzene	0.033	0.70	
1,3-Dichlorobenzene	0.032	0.70	
1,4-Dichlorobenzene	0.034	0.70	
2,4,5-Trichlorophenol	0.047	3.3	
2,4,6-Trichlorophenol	0.042	0.30	
2,4-Dichlorophenol	0.041	0.30	
2,4-Dimethylphenol	0.037	0.30	
2,4-Dinitrophenol	0.11	3.3	
2,4-Dinitrotoluene	0.042	0.70	
2,6-Dinitrotoluene	0.04	0.70	
2-Chloronaphthalene	0.04	0.70	
2-Chlorophenol	0.034	0.30	
2-Methylnaphthalene	0.037	0.70	
2-Methylphenol	0.063	0.30	
2-Nitroaniline	0.046	3.3	
2-Nitrophenol	0.032	0.30	
3,3'-Dichlorobenzidine	0.15	1.3	
3-Nitroaniline	0.072	3.3	
4,6-Dinitro-2-methylphenol	0.036	3.3	
4-Bromophenyl-phenylether	0.038	0.70	
4-Chloro-3-methylphenol	0.046	1.3	
4-Chloroaniline	0.053	1.3	
4-Chlorophenyl-phenyl ether	0.044	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55494-02

Initial Calibration HPMS4 1-APR-99

Analyte	Method Blank	RL	Q
4-Methylphenol	0.041	0.30	
4-Nitroaniline	0.04	3.3	
Acenaphthene	0.042	0.70	
Acenaphthylene	0.042	0.70	
Anthracene	0.035	0.70	
Benzo(a)anthracene	0.029	0.70	
Benzo(a)pyrene	0.026	0.70	
Benzo(b)fluoranthene	0.028	0.70	
Benzo(g,h,i)Perylene	0.037	0.70	
Benzoic acid	0.02	1.6	
Benzyl alcohol	0.06	1.3	
Bis(2-Chloroethoxy)Methane	0.047	0.70	
Bis(2-Chloroethyl)ether	0.041	0.70	
Butylbenzylphthalate	0.031	0.70	
Chrysene	0.041	0.70	
Di-N-Butylphthalate	0.031	0.70	
Di-n-octylphthalate	0.031	0.70	
Dibenzo(a,h)Anthracene	0.039	0.70	
Dibenzofuran	0.043	0.70	
Diethylphthalate	0.049	0.70	
Dimethylphthalate	0.046	0.70	
Fluoranthene	0.028	0.70	
Fluorene	0.044	0.70	
Hexachlorobenzene	0.04	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55494-02

Initial Calibration HPMS4 1-APR-99

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	0.037	0.70	
Hexachlorocyclopentadiene	0.087	0.70	
Hexachloroethane	0.033	0.70	
Indeno(1,2,3-cd)pyrene	0.036	0.70	
Isophorone	0.043	0.70	
N-Nitroso-di-n-propylamine	0.035	0.70	
N-Nitrosodiphenylamine	0.048	0.70	
Naphthalene	0.036	0.70	
Nitrobenzene	0.034	0.70	
Pentachlorophenol	0.02	3.3	
Phenanthrene	0.043	0.70	
Phenol	0.032	0.30	
Pyrene	0.03	0.70	
bis(2-Chloroisopropyl)ether	0.041	0.70	
bis(2-Ethylhexyl)phthalate	0.039	0.70	
p-Nitrophenol	0.057	1.6	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55494-03

Units: mg/kg

Initial Calibration HPMS4 1-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.67	1.31	78.4	34 - 152	
1,2-Dichlorobenzene	1.67	1.23	73.7	32 - 135	
1,3-Dichlorobenzene	1.67	1.18	70.7	26 - 135	
1,4-Dichlorobenzene	1.67	1.19	71.3	25 - 135	
2,4,5-Trichlorophenol	1.67	1.42	85	25 - 175	
2,4,6-Trichlorophenol	1.67	1.35	80.8	29 - 138	
2,4-Dichlorophenol	1.67	1.33	79.6	36 - 135	
2,4-Dimethylphenol	1.67	1.32	79	35 - 149	
2,4-Dinitrophenol	1.67	1.21	72.5	25 - 161	
2,4-Dinitrotoluene	1.67	1.43	85.6	29 - 149	
2,6-Dinitrotoluene	1.67	1.36	81.4	41 - 135	
2-Chloronaphthalene	1.67	1.27	76	50 - 135	
2-Chlorophenol	1.67	1.09	65.3	31 - 135	
2-Methylnaphthalene	1.67	1.28	76.6	31 - 135	
2-Methylphenol	1.67	1.26	75.4	25 - 135	
2-Nitroaniline	1.67	1.48	88.6	40 - 135	
2-Nitrophenol	1.67	1.20	71.9	34 - 135	
3,3'-Dichlorobenzidine	1.67	0	0	25 - 175	*
3-Nitroaniline	1.67	1.31	78.4	41 - 135	
4,6-Dinitro-2-methylphenol	1.67	1.29	77.2	25 - 144	
4-Bromophenyl-phenylether	1.67	1.25	74.9	43 - 137	
4-Chloro-3-methylphenol	1.67	1.46	87.4	34 - 135	
4-Chloroaniline	1.67	0.0893	5.3	35 - 146	*
4-Chlorophenyl-phenyl ether	1.67	1.47	88	41 - 142	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55494-03

Units: mg/kg

Initial Calibration HPMS4 1-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	1.67	1.25	74.9	25 - 135	
4-Nitroaniline	1.67	0.962	57.6	30 - 153	
Acenaphthene	1.67	1.33	79.6	39 - 135	
Acenaphthylene	1.67	1.31	78.4	37 - 135	
Anthracene	1.67	1.36	81.4	35 - 175	
Benzo(a)anthracene	1.67	1.50	89.8	41 - 143	
Benzo(a)pyrene	1.67	1.84	110.2	31 - 135	
Benzo(b)fluoranthene	1.67	1.93	115.6	27 - 135	
Benzo(g,h,i)Perylene	1.67	1.84	110.2	25 - 159	
Benzoic acid	1.67	0.638	38.2	25 - 172	
Benzyl alcohol	1.67	1.22	73.1	25 - 135	
Bis(2-Chloroethoxy)Methane	1.67	1.23	73.7	39 - 135	
Bis(2-Chloroethyl)ether	1.67	1.15	68.9	34 - 135	
Butylbenzylphthalate	1.67	1.33	79.6	25 - 135	
Chrysene	1.67	1.44	86.2	45 - 143	
Di-N-Butylphthalate	1.67	1.39	83.2	25 - 136	
Di-n-octylphthalate	1.67	1.69	101.2	28 - 137	
Dibenzo(a,h)Anthracene	1.67	2.09	125.1	40 - 135	
Dibenzofuran	1.67	1.31	78.4	42 - 135	
Diethylphthalate	1.67	1.36	81.4	27 - 135	
Dimethylphthalate	1.67	1.39	83.2	25 - 175	
Fluoranthene	1.67	1.56	93.4	37 - 135	
Fluorene	1.67	1.42	85	38 - 149	
Hexachlorobenzene	1.67	1.61	96.4	36 - 143	

Comments:

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AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55494-03

Units: mg/kg

Initial Calibration HPMS4 1-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	1.67	1.59	95.2	25 - 135	
Hexachlorocyclopentadiene	1.67	1.58	94.6	31 - 135	
Hexachloroethane	1.67	1.22	73.1	25 - 163	
Indeno(1,2,3-cd)pyrene	1.67	1.89	113.2	25 - 170	
Isophorone	1.67	1.54	92.2	25 - 175	
N-Nitroso-di-n-propylamine	1.67	1.37	82	27 - 135	
N-Nitrosodiphenylamine	1.67	1.29	77.2	25 - 135	
Naphthalene	1.67	1.18	70.7	40 - 135	
Nitrobenzene	1.67	1.34	80.2	36 - 143	
Pentachlorophenol	1.67	1.49	89.2	38 - 146	
Phenanthrene	1.67	1.40	83.8	44 - 135	
Phenol	1.67	1.11	66.5	25 - 135	
Pyrene	1.67	1.55	92.8	37 - 146	
bis(2-Chloroisopropyl)ether	1.67	1.19	71.3	26 - 175	
bis(2-Ethylhexyl)phthalate	1.67	1.46	87.4	25 - 139	
p-Nitrophenol	1.67	1.68	100.6	25 - 141	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C AAB#: WG55692

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0404AA	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	
S13SUN010504AA	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	
S13SUN0502AA	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/1/99 Column ID DB5 Analyst MS SOP # MSSQ1 Rev. # 7 8270C
Instrument ID Hewlett 4 Data Subdirectory 0401_99 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	✓

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13033	WG55182-01 50ppm DFTPP 540-26	1	DFTPP	✓	
34	-02 50ppm BNA 510 540-35-04		BNA		
35	-03 4ppm -01				
36	-04 10ppm -02				
37	-05 20ppm -03				
38	-06 80ppm -05				
39	-07 100ppm -06				
40	-08 120ppm -07				
41	-09 140ppm -08				
42	-10 50ppm BL BNA 540-14				
43	-11 50ppm DFTPP 540-26		DFTPP		
44	-12 50ppm BNA 510 540-35-04		BNA		
45	BLK 3/31/99 V112 P115				

Comments

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = reference with internal and/or surrogate standards
SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction ana
CC = Continuing calibra filed

Reviewed By: EC2 4/2/99

507 310

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/6/99 Column ID DB5 Analyst MLS SOP # MSS01 Rev. # 7 8270C
Instrument ID HM54 Data Subdirectory 040699 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13100	WG55568-01 50ppm DFTPP 540-26	1	DFTPP	✓	
01	-02 50ppm BNA STD 540-35-04		BNA		
02	L9903464-15 Soil				
03	-16				
04	-17				
05	-18				
06	-19				
07	-20 (4x dilution)				
08	WG55494-02 ~~BKS~~ BLK 4/5/99 V112P151				
09	-03 LCS				
10	L9904049-25 20x Soil	20			* All samples diluted for thick, Black Matrix
11	-27				
12	-29				

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
SMI = Sample matrix interference

Reviewed By: [signature] 4/16/99

REMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 312

Date 4/6/99 Instrument ID HBMS 4 Data Subdirectory 040699 Column ID DB-5

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13113	L9904049-31 20x Soil	20	BNA	✓	
14	-33				
15	-35				
16	-37				
17	-39				
18	-43				
19	CH_2Cl_2	1			

MLS 4/7/99

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

Reviewed By: [illegible] 4/7/99

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/7/98 Column ID DB-5 Analyst MLS

Instrument ID HP5972 Data Subdirectory 040798 SOP # MSS01 Rev. # 7 8270C

SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4MI3120	WG55645-01 50ppm DFTPP 540-26	DFTPP			
21	-02 50ppm BNA STD 540-35-04	BNA			
22	-03 4ppm	-01			
23	-04 10ppm	-02			
24	-05 20ppm	-03			
25	-06 80ppm	-05			
26	-07 100ppm	-06			
27	-08 120ppm	-07			
28	-09 140ppm	-08			
29	-10 50ppm BNA Hit 540-B				
			MLS 4/8/98		

Comments:

√ = Compliant Analysis, Reanalysis complete

RR = Rerun

RR# = Rerun at n specified level

SMI = Sample matrix interference

MT = Missed Tune, beyond method tuning conditions

Reviewed By: [signature] 4/8/98

507 314

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/9/99 Column ID DB35 Analyst mdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP454 Data Subdirectory 040999 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____

Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13130	WG55730-01 50PPM DFTPP	1	DFTPP	✓	S40-26
13131	WG55730-02 50PPM BNA SID		BNA	✓	S40-35-4
13132	LA904064-06 SOIL				SS high-remix/RR
13133	-12			✓	
13134	-13			✓	
13135	-23			✓	
13136	-25			✓	
13137	-26			✓	
13138	-27			✓	
13139	-03	2		✓	
13140	-04 MS WG55692-04	2		✓	
13141	-05 MSD - 1 -05	2		✓	
13142	-22	2		✓	

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# [illegible]n at a specified level
IS [illegible] interference with internal [illegible]

SMI = Sample matrix [illegible]ference
MT = Missed Tune, [illegible] method tuning requirements
RE = Re-extraction [illegible]

Reviewed By: [signature] 4/12/99

507 315

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/11/99 Column ID DB-5 Analyst rdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HPMS4 Data Subdirectory 041199 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13143	50ppm DFTPP	1	DFTPP	✓	S40-26
13144	50ppm BNA STD		BNA	✓	S40-35-4
13145	4ppm			✓	-1
13146	20ppm			✓	-3
13147	80ppm			✓	-5
13148	100ppm			✓	-6
13149	120ppm			✓	-7
13150	50ppm All source			✓	S40-39
13151	50ppm DFTPP		DFTPP	✓	S40-26
13152	50ppm BNA STD		BNA	✓	S40-35-4
13153	WG54443-02 SOIL BLK 3/24 V112P35				
13154	↓ -03 ↓ LCS ↓ ↓				
13155	L9904064-06 SOIL Rem. 2				

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = R[illegible]
RR# = [illegible] at a specified level
[illegible]

SMI = Sample matrix [illegible]ence
MT = Missed Tune, be[illegible] method tuning requirements
RE = Re-extraction analysis

Reviewed By: SPR 4/12/99

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Labor · Maintenance / Runlog

Date 4/11/99 Instrument ID 17MS4 Data Subdirectory 041199 Column ID 1333

Run #	Sample Description		Dilution Factor	Method File	Analysis Complete	Comments
4M13156	L4903438-01 SOIL		10	BNA	✓	SS1 low, IS2-6 low - SM1
13157	-02				RR20	IS2-6 low, SS3 high - SM1
13158	-03				✓	IS4,5 low, SS3 high - SM1
13159	-04				✓	
13160	-05				✓	IS4 low - SM1
13161	-06				✓	IS2-6 low, SS1,5 low, SS3 high - SM1
13162	-07				✓	
13163	-08				✓	IS2,4 low, SS1,5 low, SS3 high - SM1
13164	-09				✓	IS1-6 low, SS3 high - SM1
13165	-10				✓	IS4 low - SM1
13166	-11	MS W654943-04			✓	SS3 high SM1
13167	-12	MSD ⊥ -05			✓	SS3 high, IS4 low - SM1
13168	-13				✓	IS4 low, SS3 high - SM1
13169	-14					AS error

4/12/99

Comments:

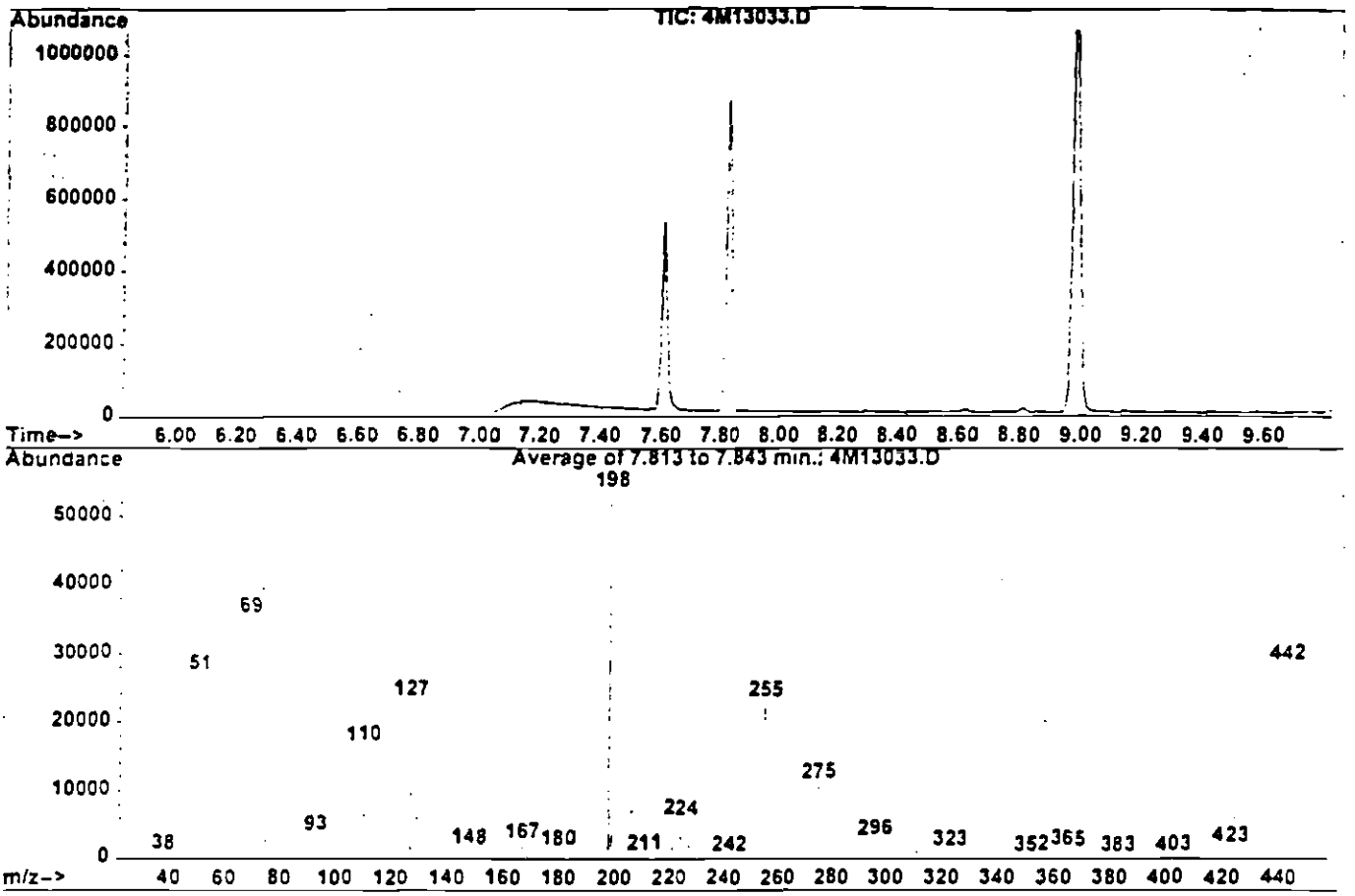
√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re extraction analysis
CC = Continuing calibration failed

Reviewed By: [signature] 4/12/99

507 316

Data File : C:\HPCHEM\1\DATA\040199\4M13033.D Vial: 1
Acq On : 1 Apr 1999 10:09 Operator: MLS
Sample : WG55182-01 50PPM DFTPP S40-26 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

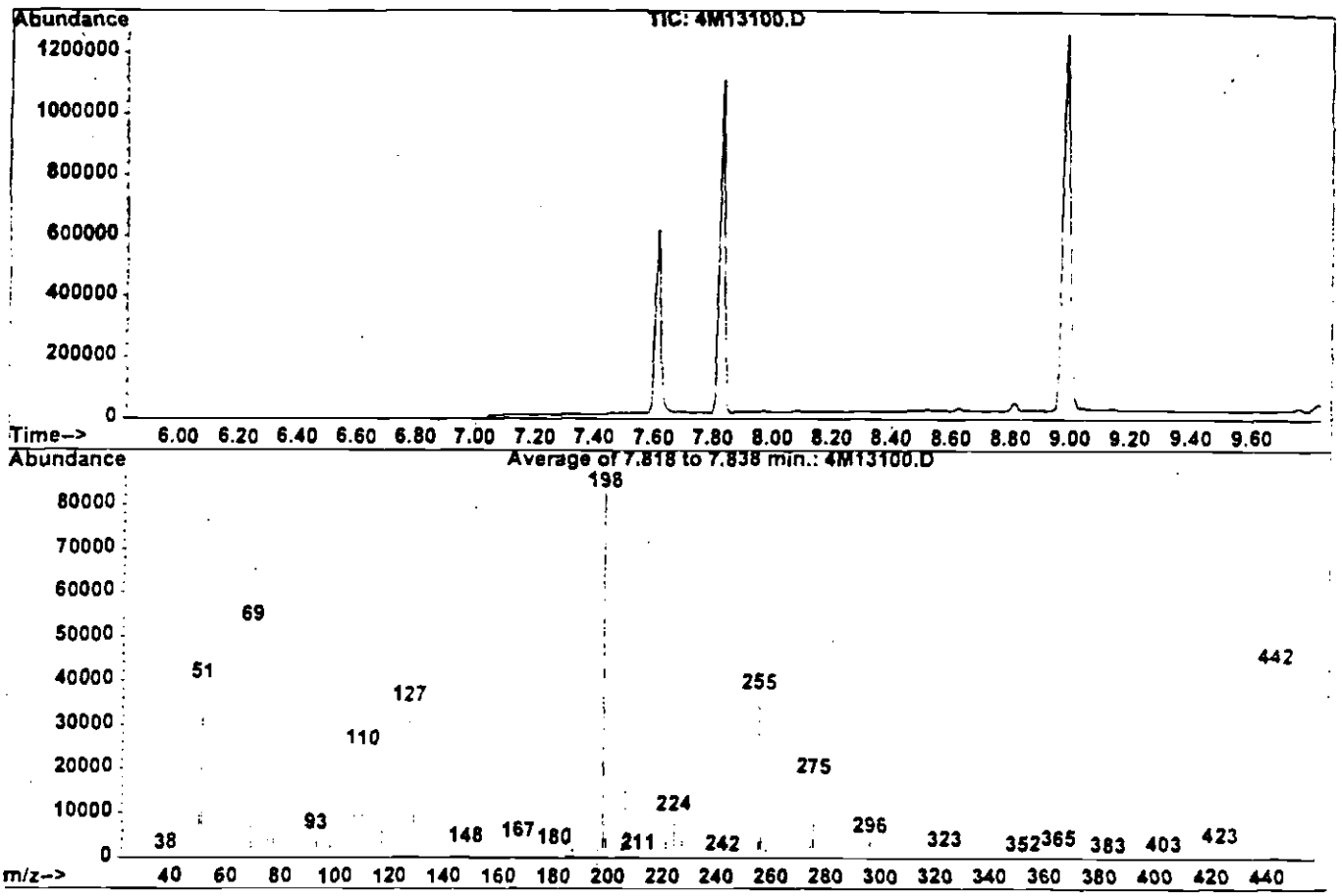


Spectrum Information: Average of 7.813 to 7.843 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.7	26817	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.2	35158	PASS
70	69	0.00	2	0.5	183	PASS
127	198	40	60	42.5	22926	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	53943	PASS
199	198	5	9	6.7	3640	PASS
275	198	10	30	20.1	10828	PASS
365	198	1	100	2.0	1086	PASS
441	443	0.01	100	76.7	4159	PASS
442	198	40	100	52.1	28090	PASS
443	442	17	23	19.3	5424	PASS

Data File : C:\HPCHEM\1\DATA\040699\4M13100.D
Acq On : 6 Apr 1999 10:45
Sample : WG55568-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: MLS
Inst : HPMS4
Multiplr: 1.00

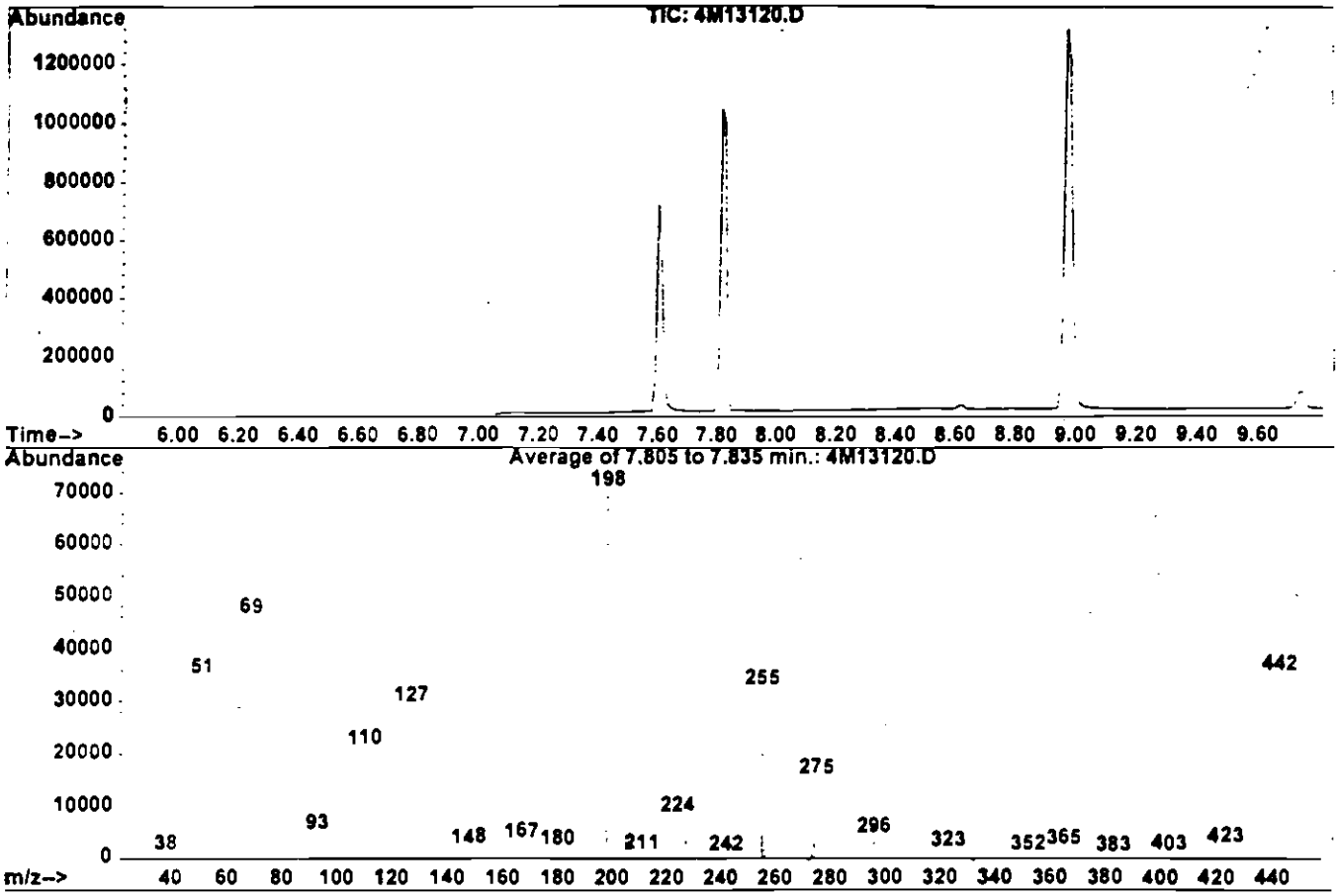


Spectrum Information: Average of 7.818 to 7.838 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	39193	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	62.8	52302	PASS
70	69	0.00	2	0.4	199	PASS
127	198	40	60	40.9	34064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83269	PASS
199	198	5	9	6.8	5701	PASS
275	198	10	30	21.2	17663	PASS
365	198	1	100	2.0	1689	PASS
441	443	0.01	100	78.2	6451	PASS
442	198	40	100	51.6	42974	PASS
443	442	17	23	19.2	8246	PASS

4M13100.D DFTPP.M Tue Apr 06 10:57:17 1999 HPMS4

Data File : C:\HPCHEM\1\DATA\040799\4M13120.D Vial: 1
Acq On : 7 Apr 1999 13:03 Operator: MLS
Sample : WG55645-01 50PPM DFTPP S40-26 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

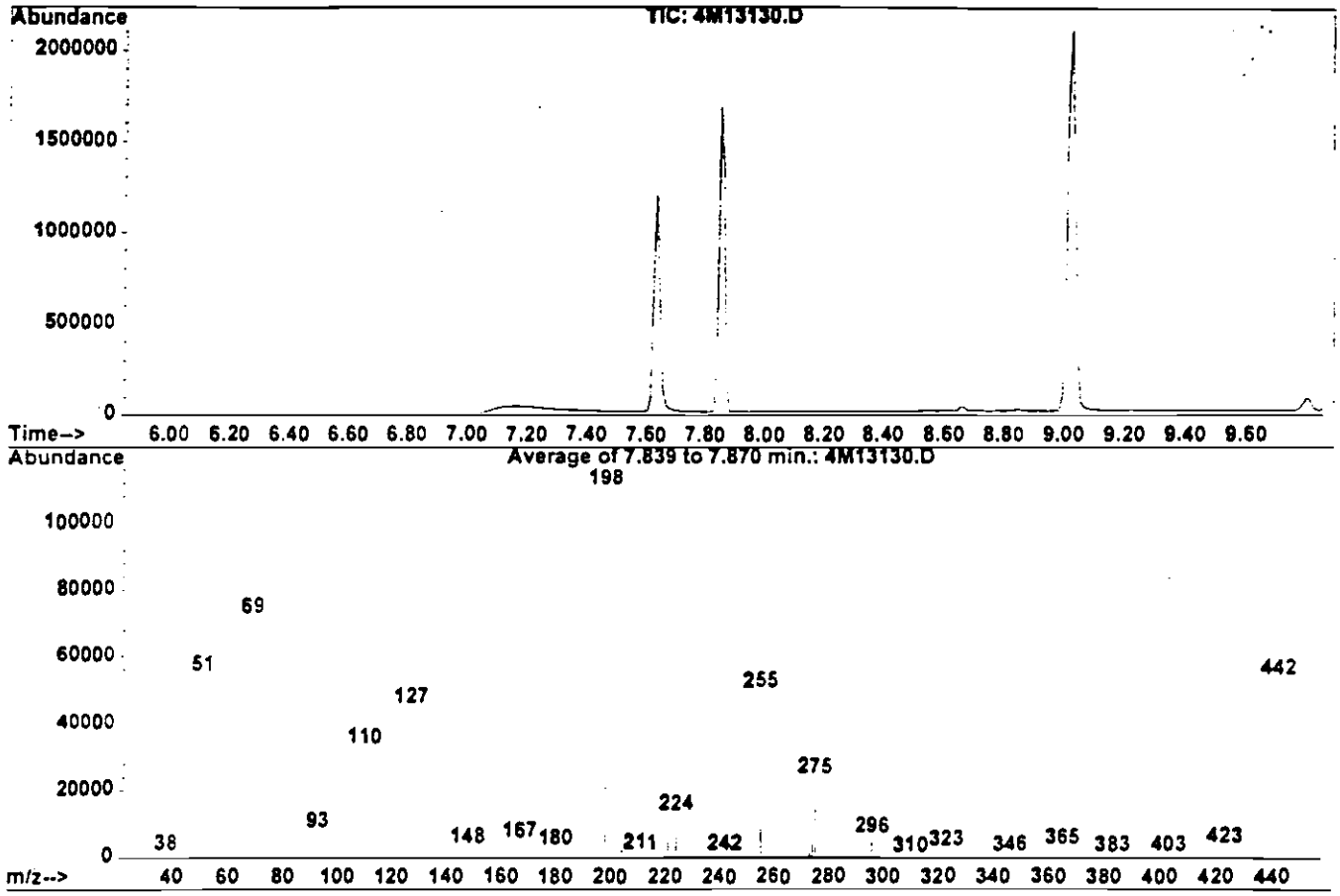


Spectrum Information: Average of 7.805 to 7.835 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.6	34441	PASS
68	69	0.00	2	0.3	134	PASS
69	198	0.00	100	64.4	45611	PASS
70	69	0.00	2	0.4	182	PASS
127	198	40	60	40.8	28904	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	70820	PASS
199	198	5	9	6.8	4836	PASS
275	198	10	30	21.2	15042	PASS
365	198	1	100	2.2	1562	PASS
441	443	0.01	100	79.1	5311	PASS
442	198	40	100	49.4	34998	PASS
443	442	17	23	19.2	6718	PASS

Data File : C:\HPCHEM\1\DATA\040999\4M13130.D
Acq On : 9 Apr 1999 8:08
Sample : WG55730-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

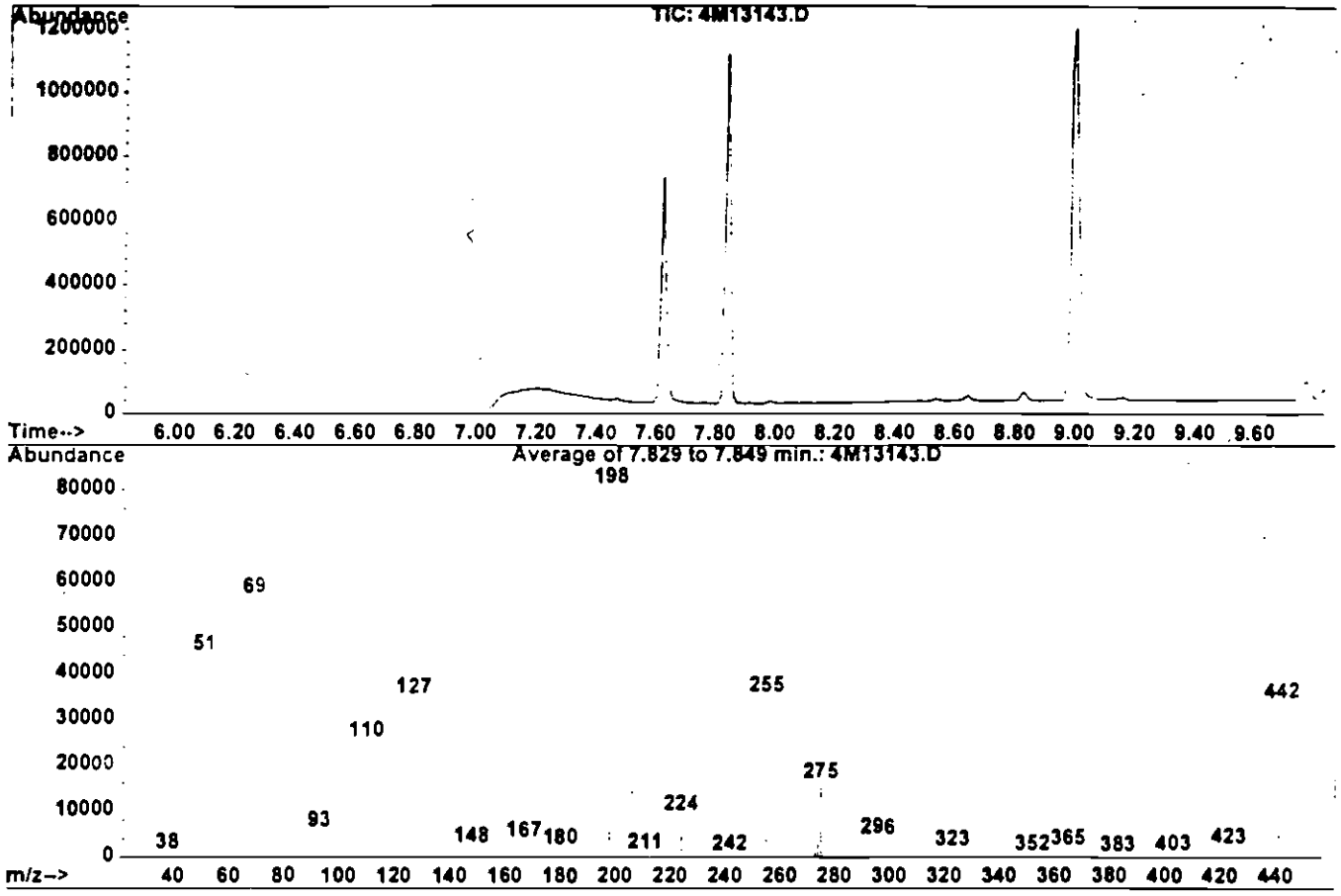


Spectrum Information: Average of 7.839 to 7.870 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.7	53983	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	64.6	71594	PASS
70	69	0.00	2	0.5	327	PASS
127	198	40	60	40.2	44546	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	110876	PASS
199	198	5	9	6.6	7334	PASS
275	198	10	30	21.1	23402	PASS
365	198	1	100	2.2	2445	PASS
441	443	0.01	100	78.9	8024	PASS
442	198	40	100	47.8	53024	PASS
443	442	17	23	19.2	10173	PASS

Data File : C:\HPCHEM\1\DATA\041199\4M13143.D
Acq On : 11 Apr 1999 11:34
Sample : WG55730-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

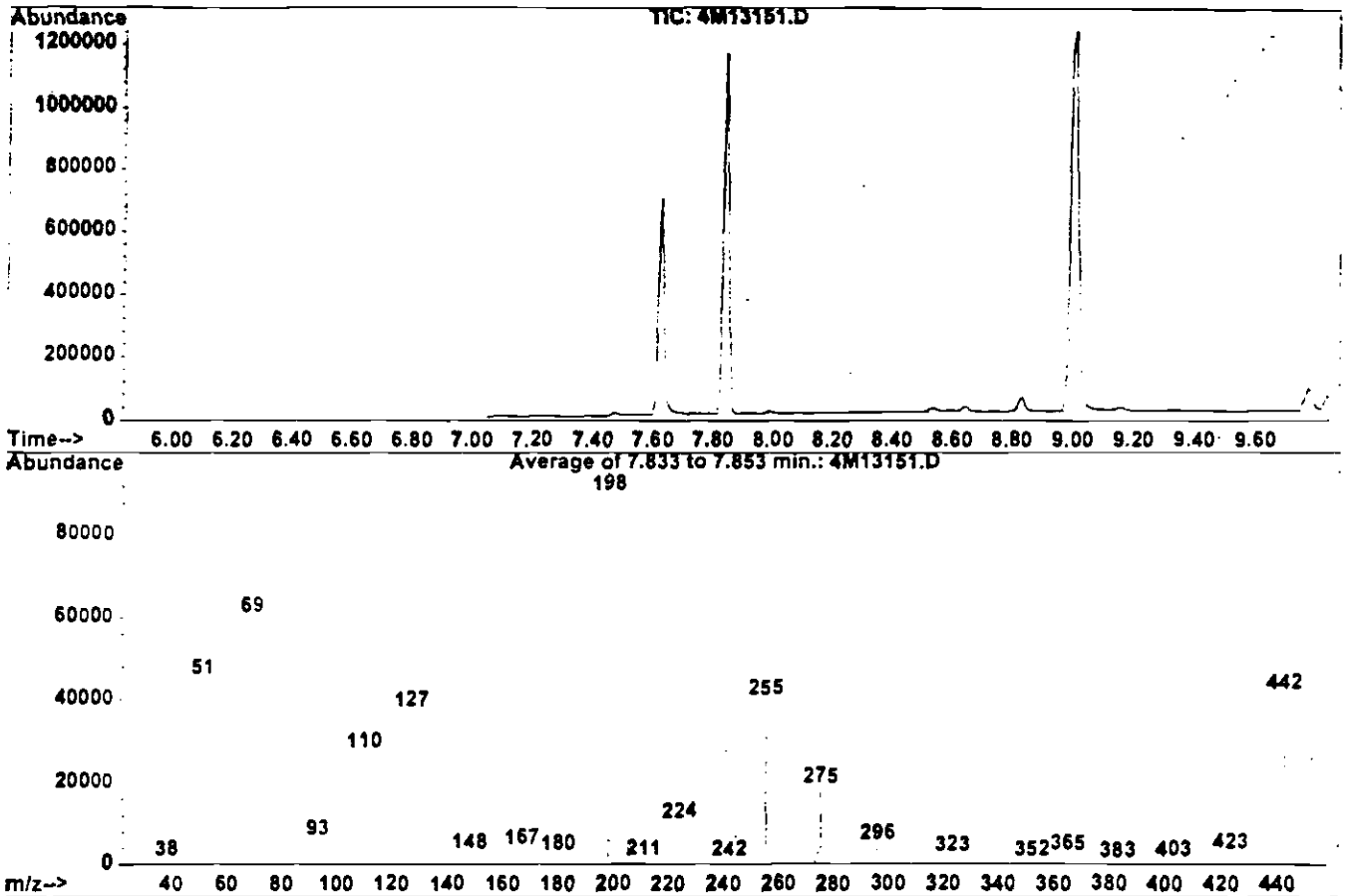


Spectrum Information: Average of 7.829 to 7.849 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.3	43831	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	69.8	56349	PASS
70	69	0.00	2	0.7	400	PASS
127	198	40	60	42.7	34475	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	80779	PASS
199	198	5	9	6.8	5510	PASS
275	198	10	30	19.7	15913	PASS
365	198	1	100	2.0	1630	PASS
441	443	0.01	100	75.2	4953	PASS
442	198	40	100	41.5	33507	PASS
443	442	17	23	19.6	6584	PASS

Data File : C:\HPCHEM\1\DATA\041199\4M13151.D
Acq On : 11 Apr 1999 16:17
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 9
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Average of 7.833 to 7.853 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.6	44916	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	66.3	59950	PASS
70	69	0.00	2	0.5	287	PASS
127	198	40	60	40.7	36855	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	90485	PASS
199	198	5	9	6.7	6102	PASS
275	198	10	30	20.6	18609	PASS
365	198	1	100	2.2	1951	PASS
441	443	0.01	100	77.5	6118	PASS
442	198	40	100	45.4	41106	PASS
443	442	17	23	19.2	7894	PASS

4M13151.D DFTPP.M Sun Apr 11 16:29:21 1999 HPMS4

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270C

AAB # : WG55881

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SUN0104AA	L9904064-08
S13SUN0104AA/MS	L9904064-09
S13SUN0104AA/MSD	L9904064-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 10-MAY-99

Title: Laboratory Manager

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Mon Apr 12 13:52:08 1999
Response via : Initial Calibration

Calibration Files
4 =3M16531.D 20 =3M16532.D 50 =3M16530.D
80 =3M16533.D 100 =3M16534.D 120 =3M16535.D

		Compound	4	20	50	80	100	120	Avg	%R
1)	I	1,4-Dichlorobenzene-d	----------			ISTD	----------			
2)		Pyridine	4.541	4.866	4.089	4.615	4.466	4.404	4.497	5.7
3)		n-Nitrosodimethylam	2.304	2.542	2.186	2.496	2.411	2.525	2.411	5.8
4)	S	2-Fluorophenol	2.967	2.974	2.623	2.903	2.881	2.819	2.861	4.5
5)		Aniline	5.458	5.908	5.031	4.383	4.058	4.727	4.927	13.9
6)	S	Phenol-d5	5.131	5.313	4.467	4.828	4.689	4.520	4.825	7.0
7)	C	Phenol	6.085	6.269	5.159	5.474	5.294	5.067	5.558	9.0
8)		bis(2-Chloroethyl)e	4.179	3.711	3.206	4.042	3.935	3.938	3.835	8.9
9)		2-Chlorophenol	1.716	1.730	1.453	1.506	1.502	1.470	1.563	8.0
10)		1,3-Dichlorobenzene	1.650	1.587	1.309	1.391	1.381	1.366	1.447	9.4
11)	C	1,4-Dichlorobenzene	1.596	1.566	1.323	1.448	1.429	1.437	1.467	6.8
12)		Benzyl Alcohol	2.103	2.196	1.928	2.093	2.046	2.022	2.065	4.3
13)	C	1,2-Dichlorobenzene	1.557	1.453	1.219	1.284	1.296	1.263	1.346	9.7
14)		2-Methylphenol	2.719	2.686	2.291	2.449	2.378	2.325	2.475	7.4
15)		bis(2-Chloroisoprop	4.284	4.418	3.582	3.700	3.500	3.337	3.804	11.6
16)		4-Methylphenol	4.001	3.897	3.356	3.537	3.519	3.407	3.620	7.3
17)	P	n-Nitrosodipropylam	2.124	2.292	1.846	1.988	1.899	1.856	2.001	8.8
18)		Hexachloroethane	1.411	1.372	1.127	1.237	1.193	1.156	1.249	9.3
19)	I	Naphthalene-d8	----------			ISTD	----------			
20)	S	Nitrobenzene-d5	1.337	1.416	1.186	1.295	1.249	1.223	1.284	6.5
21)		Nitrobenzene	1.086	1.172	0.950	1.032	0.995	0.964	1.033	8.1
22)		Isophorone	2.143	2.284	1.866	2.062	1.996	1.957	2.051	7.2
23)	C	2-Nitrophenol	0.263	0.245	0.210	0.216	0.213	0.213	0.226	9.7
24)		2,4-Dimethylphenol	0.511	0.488	0.413	0.437	0.432	0.443	0.454	8.27
25)		bis(2-Chloroethoxy)	1.504	1.565	1.238	1.357	1.322	1.286	1.379	9.31
26)		Benzoic Acid	0.065	0.195	0.217	0.285	0.289	0.304	0.226	39.84
27)	C	2,4-Dichlorophenol	0.376	0.367	0.310	0.345	0.349	0.349	0.349	6.49
28)		1,2,4-Trichlorobenz	0.399	0.403	0.336	0.388	0.390	0.397	0.385	6.47
29)		Naphthalene	1.350	1.303	1.058	1.153	1.144	1.156	1.194	9.23
30)		4-Chloroaniline	0.715	0.718	0.573	0.607	0.588	0.577	0.630	10.84
31)	C	Hexachlorobutadiene	0.303	0.310	0.265	0.308	0.305	0.302	0.299	5.69
32)	C	4-Chloro-3-Methylph	0.897	0.956	0.790	0.859	0.843	0.828	0.862	6.69
33)		2-Methylnaphthalene	0.773	0.748	0.613	0.703	0.701	0.726	0.711	7.75
34)	I	Acenaphthene-d10	----------			ISTD	----------			
35)	P	Hexachlorocyclopent	0.053	0.197	0.222	0.355	0.360	0.387	0.262	49.19
36)	C	2,4,6-Trichlorophen	0.502	0.501	0.455	0.517	0.519	0.522	0.503	4.97
37)		2,4,5-Trichlorophen	0.495	0.534	0.487	0.544	0.555	0.549	0.528	5.55
38)	S	2-Fluorobiphenyl	1.489	1.388	1.219	1.442	1.445	1.461	1.407	6.97
39)		2-Chloronaphthalene	1.358	1.283	1.107	1.226	1.215	1.248	1.239	6.70
40)		2-Nitroaniline	0.778	0.816	0.700	0.720	0.698	0.686	0.733	7.14
41)		Dimethylphthalate	1.758	1.694	1.434	1.571	1.550	1.579	1.598	7.13

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Mon Apr 12 13:52:08 1999
Response via : Initial Calibration

Calibration Files
4 =3M16531.D 20 =3M16532.D 50 =3M16530.D
80 =3M16533.D 100 =3M16534.D 120 =3M16535.D

		Compound	4	20	50	80	100	120	Avg	%I
42)		Acenaphthylene	2.165	2.073	1.742	1.940	1.913	1.935	1.961	7.4
43)		2,6-Dinitrotoluene	0.382	0.402	0.341	0.356	0.364	0.368	0.369	5.6
44)		3-Nitroaniline	0.544	0.554	0.465	0.475	0.462	0.458	0.493	8.8
45)	C	Acenaphthene	1.305	1.293	1.131	1.339	1.327	1.374	1.295	6.5
46)	P	2,4-Dinitrophenol		0.229	0.236	0.287	0.291	0.300	0.269	12.4
47)	P	4-Nitrophenol	0.477	0.518	0.421	0.380	0.360	0.314	0.412	18.4
48)		Dibenzofuran	1.985	1.908	1.665	1.863	1.852	1.897	1.861	5.7
49)		2,4-Dinitrotoluene	0.518	0.555	0.480	0.508	0.509	0.507	0.513	4.7
50)		Diethylphthalate	2.261	2.087	1.728	1.869	1.827	1.825	1.933	10.3
51)		Fluorene	1.426	1.373	1.160	1.406	1.402	1.447	1.369	7.7
52)		4-Chlorophenyl Phen	0.804	0.818	0.722	0.830	0.812	0.812	0.800	4.8
53)		4-Nitroaniline	0.472	0.461	0.365	0.384	0.371	0.391	0.407	11.5
54)		1,2-Diphenylhydrazi	3.803	3.812	3.168	3.163	3.049	2.923	3.319	11.7
55)	S	2,4,6-Tribromopheno	0.304	0.347	0.310	0.362	0.358	0.358	0.340	7.6
56)	I	Phenanthrene-d10	ISTD							
57)		4,6-Dinitro-2-Methy		0.194	0.181	0.205	0.210	0.209	0.200	6.2
58)	C	n-Nitrosodiphenylam	0.582	0.547	0.477	0.519	0.526	0.523	0.529	6.5
59)		4-Bromophenyl Pheny	0.269	0.270	0.241	0.271	0.271	0.264	0.264	4.4
60)		Hexachlorobenzene	0.311	0.306	0.276	0.304	0.306	0.293	0.299	4.3
61)	C	Pentachlorophenol		0.159	0.156	0.184	0.188	0.190	0.175	[illegible]
62)		Phenanthrene	1.163	1.125	0.993	1.152	1.165	1.172	1.128	[illegible]
63)		Anthracene	1.173	1.124	0.989	1.064	1.100	1.097	1.091	5.6
64)		Carbazole	1.179	1.093	0.922	0.910	0.923	0.916	0.991	11.7
65)		Di-n-Butyl Phthalat	1.921	1.716	1.410	1.471	1.490	1.472	1.580	12.5
66)	C	Fluoranthene	1.285	1.209	1.057	1.230	1.232	1.245	1.210	6.5
67)	I	Chrysene-d12	ISTD							
68)		Benzidine		0.196	0.106	0.136	0.117	0.147	0.140	25.1
69)		Pyrene	1.668	1.543	1.377	1.525	1.545	1.525	1.530	6.0
70)	S	p-Terphenyl-d14	1.200	1.146	1.040	1.145	1.166	1.127	1.137	4.74
71)		Butyl Benzyl Phthal	1.005	0.928	0.773	0.784	0.771	0.769	0.838	12.2
72)		Benzo[a]anthracene	1.261	1.238	1.117	1.313	1.331	1.349	1.268	6.7
73)		3,3'-Dichlorobenzid	0.442	0.328	0.271	0.349	0.377	0.417	0.364	17.04
74)		Chrysene	1.123	1.159	1.067	1.245	1.277	1.294	1.194	7.66
75)		bis(2-Ethylhexyl)ph	1.194	1.139	0.984	1.006	1.017	1.003	1.057	8.24
76)	I	Perylene-d12	ISTD							
77)	C	Di-n-Octyl Phthalat	2.199	2.041	2.160	1.804	1.798	1.707	1.951	10.69
78)		Benzo[b]fluoranthen	1.165	1.203	1.255	1.254	1.273	1.334	1.247	4.68
79)		Benzo[k]fluoranthen	1.100	1.076	1.218	1.146	1.190	1.139	1.145	4.63
80)	C	Benzo[a]pyrene	1.039	1.017	1.128	1.065	1.072	1.082	1.067	3.59
81)		Indeno[1,2,3-cd]pyr	1.009	1.092	1.290	1.297	1.355	1.386	1.238	12.29
82)		Dibenz[ah]anthracen	0.770	0.860	1.042	1.058	1.118	1.134	0.997	14.84

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Mon Apr 12 13:52:08 1999
Response via : Initial Calibration

Calibration Files
4 =3M16531.D 20 =3M16532.D 50 =3M16530.D
80 =3M16533.D 100 =3M16534.D 120 =3M16535.D

	Compound	4	20	50	80	100	120	Avg	%I
83)	Benzo[ghi]perylene	0.830	0.915	1.060	1.056	1.110	1.129	1.017	11.6

(#) = Out of Range

507 326

Method: BNA.M
Title: M8270/625 LIST/INITIAL CALIBRATION 04/12/99
Last Calibration: Tue Apr 13 07:40:09 1999

Calibration Files

Compound	4 3M16556.D	20 3M16559.D	50 3M16560.D	80 3M16561.D	100 3M16562.D	120 3M16563.D	Avg	%RSD
1,4-Dichlorobenzene-d4	ISTD							
Pyridine	5.029	4.633	4.734	4.524	4.405	4.216	4.590	6.114
n-Nitrosodimethylamine	2.804	2.573	2.503	2.515	2.459	2.290	2.524	6.629
2-Fluorophenol	3.414	2.979	2.960	2.967	2.901	2.822	3.007	6.911
Aniline	6.972	7.697	6.193	6.019	6.479	5.715	6.512	11.063
Phenol-d5	6.038	5.340	5.226	5.093	4.878	4.632	5.201	9.261
Phenol	7.169	5.753	5.564	5.438	5.085	4.744	5.626	14.889
bis(2-Chloroethyl)ether	5.350	4.776	4.391	4.341	3.378	3.750	4.331	16.280
2-Chlorophenol	1.970	1.732	1.652	1.597	1.540	1.541	1.672	9.742
1,3-Dichlorobenzene	1.903	1.621	1.502	1.475	1.421	1.419	1.557	11.878
1,4-Dichlorobenzene	1.818	1.624	1.551	1.515	1.447	1.465	1.570	8.738
Benzyl Alcohol	2.289	2.204	2.147	2.145	2.046	2.020	2.142	4.654
1,2-Dichlorobenzene	1.819	1.492	1.424	1.373	1.321	1.345	1.462	12.648
2-Methylphenol	3.175	2.709	2.604	2.595	2.469	2.438	2.665	10.084
bis(2-Chloroisopropyl)ether	4.993	4.538	4.159	3.942	3.751	3.412	4.132	13.720
4-Methylphenol	4.545	3.959	3.763	3.766	3.598	3.568	3.867	9.337
n-Nitrosodipropylamine	2.528	2.353	2.150	2.095	1.988	1.853	2.161	11.318
Hexachloroethane	1.632	1.421	1.341	1.312	1.260	1.246	1.369	10.481
Naphthalene-d8	ISTD							
Nitrobenzene-d5	1.557	1.403	1.317	1.318	1.267	1.159	1.336	10.033
Nitrobenzene	1.319	1.152	1.065	1.070	1.030	0.922	1.093	12.083
Isophorone	2.542	2.302	2.108	2.107	2.035	1.851	2.158	11.039
2-Nitrophenol	0.283	0.250	0.230	0.227	0.217	0.219	0.235	10.516
2,4-Dimethylphenol	0.593	0.523	0.465	0.464	0.454	0.445	0.491	11.583
bis(2-Chloroethoxy)methane	1.804	1.554	1.406	1.386	1.345	1.244	1.456	13.565
Benzoic Acid		0.210	0.244	0.275	0.277	0.295	0.260	12.919
2,4-Dichlorophenol	0.445	0.366	0.337	0.342	0.335	0.341	0.361	11.811
1,2,4-Trichlorobenzene	0.480	0.404	0.372	0.385	0.381	0.381	0.400	10.131
Naphthalene	1.556	1.328	1.189	1.182	1.138	1.152	1.257	12.813
4-Chloroaniline	0.879	0.756	0.680	0.676	0.654	0.643	0.715	12.554
Hexachlorobutadiene	0.373	0.322	0.297	0.314	0.306	0.292	0.318	9.269
4-Chloro-3-Methylphenol	1.064	0.945	0.870	0.873	0.843	0.802	0.899	10.372
2-Methylnaphthalene	1.982	0.763	0.694	0.706	0.689	0.699	0.752	14.111
Acenaphthene-d10	ISTD							
Hexachlorocyclopentadiene	0.064	0.190	0.257	0.328	0.354	0.365	0.260	44.918
2,4,6-Trichlorophenol	0.571	0.506	0.515	0.506	0.508	0.508	0.519	4.933
2,4,5-Trichlorophenol	0.614	0.546	0.534	0.556	0.554	0.549	0.559	5.032
2-Fluorobiphenyl	1.782	1.426	1.368	1.373	1.406	1.392	1.460	11.253
2-Chloronaphthalene	1.566	1.318	1.257	1.253	1.238	1.250	1.314	9.668
2-Nitroaniline	0.892	0.839	0.784	0.760	0.734	0.665	0.779	10.212
Dimethylphthalate	2.088	1.699	1.624	1.615	1.565	1.565	1.693	11.797
Acenaphthylene	2.594	2.091	1.977	1.942	1.899	1.939	2.0736	12.685
2,6-Dinitrotoluene	0.456	0.397	0.381	0.384	0.375	0.375	0.3948	7.826
3-Nitroaniline	0.63	0.565	0.525	0.512	0.493	0.492	0.536	9.95
Acenaphthene	1.522	1.314	1.234	1.263	1.261	1.29	1.3141	8.0374
2,4-Dinitrophenol		0.206	0.238	0.267	0.266	0.282	0.2516	12.039
4-Nitrophenol	0.513	0.528	0.472	0.443	0.413	0.371	0.4566	13.154
Dibenzofuran	2.323	1.963	1.878	1.851	1.855	1.853	1.9539	9.5034
2,4-Dinitrotoluene	0.62	0.567	0.526	0.534	0.512	0.513	0.5457	7.5773
Diethylphthalate	2.408	2.059	1.923	1.9	1.859	1.812	1.9929	10.953
Fluorene	1.668	1.363	1.29	1.33	1.345	1.334	1.3883	10.01
4-Chlorophenyl Phenyl Ether	0.953	0.815	0.792	0.823	0.815	0.802	0.8385	8.5536
4-Nitroaniline	0.551	0.478	0.413	0.393	0.388	0.389	0.4352	15.15

[illegible]	0.364	0.358	0.345	0.358	0.356	0.341	0.3537	2.4691
Phenanthrene-d10	ISTD							
4,6-Dinitro-2-Methylphenol		0.19	0.197	0.206	0.204	0.208	0.2009	3.5886
n-Nitrosodiphenylamine	0.686	0.557	0.538	0.523	0.511	0.529	0.5575	11.597
4-Bromophenyl Phenyl Ether	0.329	0.278	0.278	0.281	0.277	0.273	0.2859	7.526
Hexachlorobenzene	0.362	0.317	0.318	0.313	0.316	0.304	0.3218	6.3335
Pentachlorophenol		0.151	0.165	0.178	0.18	0.18	0.1709	7.4857
Phenanthrene	1.378	1.152	1.128	1.118	1.115	1.141	1.172	8.6833
Anthracene	1.442	1.182	1.157	1.151	1.159	1.142	1.2054	9.67
Carbazole	1.41	1.155	1.089	1.036	1.009	1.022	1.1202	13.551
Di-n-Butyl Phthalate	2.132	1.775	1.682	1.585	1.555	1.545	1.7123	13.05
Fluoranthene	1.536	1.293	1.262	1.273	1.27	1.26	1.3157	8.2439
Chrysene-d12	ISTD							
Benzidine		0.538	0.439	0.439	0.436	0.43	0.4565	10.079
Pyrene	2.099	1.72	1.718	1.696	1.646	1.619	1.7497	10.059
p-Terphenyl-d14	1.488	1.246	1.285	1.276	1.231	1.2	1.2875	7.982
Butyl Benzyl Phthalate	1.242	0.988	0.976	0.92	0.858	0.866	0.9749	14.501
Benzo[a]anthracene	1.589	1.326	1.324	1.379	1.353	1.364	1.3892	7.2317
3,3'-Dichlorobenzidine	0.555	0.407	0.334	0.328	0.328	0.35	0.3839	23.245
Chrysene	1.376	1.207	1.22	1.289	1.276	1.285	1.2756	4.7233
bis(2-Ethylhexyl)phthalate	1.518	1.21	1.158	1.119	1.053	1.052	1.1852	14.691
Perylene-d12	ISTD							
Di-n-Octyl Phthalate	2.965	2.371	2.268	2.177	2.091	2.029	2.317	14.687
Benzo[b]fluoranthene	1.687	1.535	1.452	1.498	1.519	1.551	1.5404	5.1816
Benzo[k]fluoranthene	1.599	1.23	1.326	1.367	1.373	1.313	1.3682	9.0804
Benzo[a]pyrene	1.503	1.32	1.323	1.356	1.352	1.337	1.3656	5.1054
Indeno[1,2,3-cd]pyrene	1.548	1.356	1.445	1.603	1.62	1.659	1.5384	7.5513
Dibenz[ah]anthracene	1.144	1.041	1.126	1.269	1.302	1.313	1.1991	9.2629
Benzo[ghi]perylene	1.331	1.169	1.263	1.375	1.373	1.421	1.3222	6.9565

Tue Apr 13 07:41:11 1999 Avergae 10.594

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

507 329

Analytical Method: 8270C
AAB#: WG55881
Lab Name: Kemron Environmental Services
Contract #: F41624-96-D-8003-0023
Instrument ID.: HPMS3
Date of Initial Calibration: 11-Apr-99
2nd Source ID.: ALT HPMS3 11-APR-99

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	1.86	
Hexachlorocyclopentadiene *	15.35	
2,4-Dinitrophenol *	6.30	
4-Nitrophenol *	2.12	
Phenol #	2.83	
1,4-Dichlorobenzene #	4.95	
2-Nitrophenol #	2.11	
2,4-Dichlorophenol #	1.33	
Hexachlorobutadiene #	4.86	
4-Chloro-3-methyl phenol #	0.71	
2,4,6-Trichlorophenol #	2.15	
Acenaphthene #	2.42	
n-Nitrosodiphenylamine #	1.32	
Pentachlorophenol #	3.47	
Fluoranthene #	6.45	
Di-n-octylphthalate #	20.58	
Benzo(a)pyrene #	25.14	*
1,2,4-Trichlorobenzene	0.54	
1,2-Dichlorobenzene	5.92	
1,3-Dichlorobenzene	1.52	
2,4-Dinitrotoluene	5.92	
2,6-Dinitrotoluene	5.51	
2-Chloronaphthalene	2.09	
2-Methylnaphthalene	3.52	
2-Nitroaniline	2.64	
3-Nitroaniline	4.83	
3,3-Dichlorobenzidine	3.11	
4-Bromophenyl phenyl ether	6.88	
4-Chloroaniline	4.09	
4-Chlorophenyl phenyl ether	0.99	
4-Nitroaniline	6.29	
Acenaphthylene	4.50	
Anthracene	1.65	
Benz(a)anthracene	3.78	
Benzo(b)fluoranthene	22.47	
Benzo(g,h,i)perylene	17.86	
Benzyl alcohol	2.98	
Bis (2-chloroethoxy)methane	0.13	
Bis (2-chloroethyl) ether	10.33	
Bis (2-chloroisopropyl) ether	1.50	
Bis (2-ethylhexyl) phthalate	6.01	
Butyl Benzyl Phthalate	9.89	
Chrysene	3.74	
Di-n-butylphthalate	1.20	
Dibenz (a,h) Anthracene	15.40	
Dibenzofuran	0.27	
Diethyl phthalate	0.11	
Dimethyl phthalate	1.76	
Fluorene	2.70	
Hexachlorobenzene	4.48	
Hexachloroethane	4.23	
Indeno(1,2,3-cd)pyrene	12.58	
Isophorone	6.30	
n-Nitrosodimethylamine	3.55	
Naphthalene	0.60	
Nitrobenzene	0.18	
Phenanthrene	3.58	
Pyrene	6.99	
2,4,5-Trichlorophenol	5.37	
2,4-Dimethylphenol	0.94	
2-Chlorophenol	3.44	
2-Methylphenol	2.73	
4,6-Dinitro-2-methylphenol	2.85	
4-Methylphenol	1.13	
Benzoic acid	3.53	

Comments

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG55881

Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023

Instrument ID: HPMS3
Date of Initial Calibration: 12-Apr-99

2nd Source ID: ALT HPMS3 12-Apr-99

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	8.15	
Hexachlorocyclopentadiene *	15.54	
2,4-Dinitrophenol *	8.85	
4-Nitrophenol *	1.35	
Phenol #	6.68	
1,4-Dichlorobenzene #	1.28	
2-Nitrophenol #	1.67	
2,4-Dichlorophenol #	5.00	
Hexachlorobutadiene #	2.40	
4-Chloro-3-methyl phenol #	4.09	
2,4,6-Trichlorophenol #	3.11	
Acenaphthene #	5.48	
n-Nitrosodiphenylamine #	2.71	
Pentachlorophenol #	4.58	
Fluoranthene #	2.80	
Di-n-octylphthalate #	3.98	
Benzo(a)pyrene #	2.26	
1,2,4-Trichlorobenzene	5.43	
1,2-Dichlorobenzene	2.81	
1,3-Dichlorobenzene	2.88	
2,4-Dinitrotoluene	2.29	
2,6-Dinitrotoluene	0.69	
2-Chloronaphthalene	4.09	
2-Methylnaphthalene	10.64	
2-Nitroaniline	3.55	
3-Nitroaniline	2.42	
3,3-Dichlorobenzidine	0.79	
4-Bromophenyl phenyl ether	14.43	
4-Chloroaniline	7.95	
4-Chlorophenyl phenyl ether	6.60	
4-Nitroaniline	2.05	
Acenaphthylene	0.75	
Anthracene	6.29	
Benzo(a)anthracene	3.99	
Benzo(b)fluoranthene	5.05	
Benzo(g,h,i)perylene	3.04	
Benzyl alcohol	3.54	
Bis (2-chloroethoxy)methane	4.13	
Bis (2-chloroethyl) ether	15.54	
Bis (2-chloroisopropyl) ether	4.58	
Bis (2-ethylhexyl) phthalate	2.13	
Butyl Benzyl Phthalate	1.74	
Chrysene	3.02	
Di-n-butylphthalate	2.71	
Dibenz (a,h) Anthracene	3.50	
Dibenzofuran	5.59	
Diethyl phthalate	4.00	
Dimethyl phthalate	4.41	
Fluorene	4.79	
Hexachlorobenzene	2.49	
Hexachloroethane	1.95	
Indeno(1,2,3-cd)pyrene	6.08	
Isophorone	0.05	
n-Nitrosodimethylamine	1.71	
Naphthalene	3.62	
Nitrobenzene	5.03	
Phenanthrene	5.69	
Pyrene	3.64	
2,4,5-Trichlorophenol	2.27	
2,4-Dimethylphenol	7.62	
2-Chlorophenol	3.25	
2-Methylphenol	2.53	
4,6-Dinitro-2-methylphenol	3.07	
4-Methylphenol	4.46	
Benzoic acid	1.98	

Comments

Data File : C:\HPCHEM\1\DATA\041199\3M16538.D Vial: 10
Acq On : 11 Apr 1999 14:47 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 13:15:22 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	125	0.00
2		Pyridine	50.000	47.594	4.8	131	0.01
3		n-Nitrosodimethylamine	50.000	47.319	5.4	131	0.01
4	S	2-Fluorophenol	50.000	47.985	4.0	131	0.00
5		Aniline	50.000	51.363	-2.7	126	0.00
6	S	Phenol-d5	50.000	47.390	5.2	128	0.00
7	C	Phenol	50.000	47.897	4.2	129	0.00
8		bis(2-Chloroethyl)ether	50.000	45.052	9.9	135	0.00
9		2-Chlorophenol	50.000	46.904	6.2	127	0.00
10		1,3-Dichlorobenzene	50.000	45.995	8.0	128	0.00
11	C	1,4-Dichlorobenzene	50.000	45.101	9.8	125	0.01
12		Benzyl Alcohol	50.000	47.835	4.3	128	0.00
13	C	1,2-Dichlorobenzene	50.000	46.010	8.0	127	0.00
14		2-Methylphenol	50.000	47.241	5.5	128	0.00
15		bis(2-Chloroisopropyl)ether	50.000	47.388	5.2	126	0.00
16		4-Methylphenol	50.000	47.065	5.9	127	0.00
17	P	n-Nitrosodipropylamine	50.000	48.223	3.6	131	0.00
18		Hexachloroethane	50.000	47.240	5.5	131	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	128	0.01
20	S	Nitrobenzene-d5	50.000	46.439	7.1	129	0.00
21		Nitrobenzene	50.000	45.731	8.5	127	0.00
22		Isophorone	50.000	46.196	7.6	130	0.00
23	C	2-Nitrophenol	50.000	45.628	8.7	126	0.00
24		2,4-Dimethylphenol	50.000	46.002	8.0	129	0.00
25		bis(2-Chloroethoxy)methane	50.000	45.537	8.9	130	0.00
26		Benzoic Acid	50.000	50.473	-0.9	143	0.00
27	C	2,4-Dichlorophenol	50.000	45.268	9.5	130	0.00
28		1,2,4-Trichlorobenzene	50.000	45.058	9.9	132	0.00
29		Naphthalene	50.000	44.181	11.6	128	0.00
30		4-Chloroaniline	50.000	46.590	6.8	131	0.00
31	C	Hexachlorobutadiene	50.000	46.330	7.3	134	0.00
32	C	4-Chloro-3-Methylphenol	50.000	46.106	7.8	129	0.00
33		2-Methylnaphthalene	50.000	44.556	10.9	132	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	132	0.00
35	P	Hexachlorocyclopentadiene	50.000	53.456	-6.9	173	0.00
36	C	2,4,6-Trichlorophenol	50.000	46.258	7.5	135	0.00
37		2,4,5-Trichlorophenol	50.000	47.218	5.6	135	0.00
38	S	2-Fluorobiphenyl	50.000	44.420	11.2	135	0.01
39		2-Chloronaphthalene	50.000	44.548	10.9	131	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\041199\3M16538.D
Acq On : 11 Apr 1999 14:47
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: LSCINT.P

Vial: 10
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 13:15:22 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	46.094	7.8	127	0.00
41		Dimethylphthalate	50.000	45.454	9.1	133	0.00
42		Acenaphthylene	50.000	44.334	11.3	131	0.00
43		2,6-Dinitrotoluene	50.000	46.523	7.0	132	0.00
44		3-Nitroaniline	50.000	45.498	9.0	127	0.00
45	C	Acenaphthene	50.000	43.997	12.0	133	0.00
46	P	2,4-Dinitrophenol	50.000	46.034	7.9	138	0.00
47	P	4-Nitrophenol	50.000	43.558	12.9	121	0.00
48		Dibenzofuran	50.000	44.644	10.7	131	0.00
49		2,4-Dinitrotoluene	50.000	45.415	9.2	128	0.00
50		Diethylphthalate	50.000	44.480	11.0	131	0.00
51		Fluorene	50.000	44.079	11.8	137	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	46.212	7.6	135	0.00
53		4-Nitroaniline	50.000	41.682	16.6	123	0.00
54		1,2-Diphenylhydrazine	50.000	46.182	7.6	127	0.00
55	S	2,4,6-Tribromophenol	50.000	46.910	6.2	136	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	134	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	45.024	10.0	134	0.00
58	C	n-Nitrosodiphenylamine	50.000	44.494	11.0	133	0.00
59		4-Bromophenyl Phenyl Ether	50.000	46.508	7.0	137	0.00
60		Hexachlorobenzene	50.000	46.589	6.8	136	0.00
61	C	Pentachlorophenol	50.000	45.737	8.5	138	0.00
62		Phenanthrene	50.000	44.237	11.5	135	0.00
63		Anthracene	50.000	44.445	11.1	132	0.00
64		Carbazole	50.000	44.746	10.5	129	0.00
65		Di-n-Butyl Phthalate	50.000	42.794	14.4	129	0.00
66	C	Fluoranthene	50.000	44.036	11.9	135	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	141	0.00
68		Benzidine	50.000	56.125	-12.3	211	0.00
69		Pyrene	50.000	43.899	12.2	138	0.00
70	S	p-Terphenyl-d14	50.000	45.006	10.0	139	0.00
71		Butyl Benzyl Phthalate	50.000	42.656	14.7	131	0.01
72		Benzo[a]anthracene	50.000	44.361	11.3	142	0.00
73		3,3'-Dichlorobenzidine	50.000	52.268	-4.5	162	0.00
74		Chrysene	50.000	44.975	10.1	142	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	43.405	13.2	132	0.00
76	I	Perylene-d12	40.000	40.000	0.0	140	0.01
77	C	Di-n-Octyl Phthalate	50.000	52.232	-4.5	132	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\041199\3M16538.D Vial: 10
Acq On : 11 Apr 1999 14:47 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/11/99
Last Update : Sun Apr 11 13:15:22 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min
78		Benzo[b]fluoranthene	50.000	55.216	-10.4	153	0.01
79		Benzo[k]fluoranthene	50.000	50.264	-0.5	132	0.01
80	C	Benzo[a]pyrene	50.000	52.975	-6.0	140	0.01
81		Indeno[1,2,3-cd]pyrene	50.000	50.736	-1.5	136	0.02
82		Dibenz[ah]anthracene	50.000	51.011	-2.0	137	0.02
83		Benzo[ghi]perylene	50.000	50.531	-1.1	136	0.01

Data File : C:\HPCHEM\1\DATA\041299\3M16566.D
Acq On : 12 Apr 1999 21:13
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: LSCINT.P

Vial: 11
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/12/99
Last Update : Tue Apr 13 07:40:09 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	137	0.00
2		Pyridine	50.000	48.536	2.9	129	0.00
3		n-Nitrosodimethylamine	50.000	49.063	1.9	135	0.02
4	S	2-Fluorophenol	50.000	48.655	2.7	135	0.00
5		Aniline	50.000	54.009	-8.0	155	0.00
6	S	Phenol-d5	50.000	48.782	2.4	133	0.00
7	C	Phenol	50.000	47.102	5.8	130	0.00
8		bis(2-Chloroethyl)ether	50.000	38.229	23.5	103	0.00
9		2-Chlorophenol	50.000	48.548	2.9	134	0.00
10		1,3-Dichlorobenzene	50.000	48.240	3.5	137	0.00
11	C	1,4-Dichlorobenzene	50.000	48.225	3.5	133	0.00
12		Benzyl Alcohol	50.000	49.117	1.8	134	0.00
13	C	1,2-Dichlorobenzene	50.000	47.510	5.0	133	0.00
14		2-Methylphenol	50.000	48.454	3.1	135	0.00
15		bis(2-Chloroisopropyl)ether	50.000	47.383	5.2	129	0.00
16		4-Methylphenol	50.000	48.660	2.7	137	0.00
17	P	n-Nitrosodipropylamine	50.000	47.367	5.3	130	0.00
18		Hexachloroethane	50.000	48.068	3.9	134	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	132	0.00
20	S	Nitrobenzene-d5	50.000	48.579	2.8	131	0.00
21		Nitrobenzene	50.000	48.666	2.7	132	0.00
22		Isophorone	50.000	48.148	3.7	130	0.00
23	C	2-Nitrophenol	50.000	49.683	0.6	136	0.00
24		2,4-Dimethylphenol	50.000	48.696	2.6	136	0.00
25		bis(2-Chloroethoxy)methane	50.000	47.453	5.1	130	0.00
26		Benzoic Acid	50.000	50.470	-0.9	143	0.00
27	C	2,4-Dichlorophenol	50.000	48.179	3.6	137	0.00
28		1,2,4-Trichlorobenzene	50.000	48.632	2.7	139	0.00
29		Naphthalene	50.000	47.630	4.7	133	0.00
30		4-Chloroaniline	50.000	48.147	3.7	134	0.00
31	C	Hexachlorobutadiene	50.000	48.612	2.8	138	0.00
32	C	4-Chloro-3-Methylphenol	50.000	48.558	2.9	133	0.00
33		2-Methylnaphthalene	50.000	47.954	4.1	138	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	134	0.00
35	P	Hexachlorocyclopentadiene	50.000	55.083	-10.2	162	0.00
36	C	2,4,6-Trichlorophenol	50.000	49.772	0.5	135	0.00
37		2,4,5-Trichlorophenol	50.000	48.780	2.4	137	0.00
38	S	2-Fluorobiphenyl	50.000	47.731	4.5	137	0.00
39		2-Chloronaphthalene	50.000	47.827	4.3	134	0.00

(#) = Out of Range

507 334

Data File : C:\HPCHEM\1\DATA\041299\3M16566.D Vial: 11
Acq On : 12 Apr 1999 21:13 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/12/99
Last Update : Tue Apr 13 07:40:09 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	49.255	1.5	132	0.00
41		Dimethylphthalate	50.000	48.137	3.7	135	0.00
42		Acenaphthylene	50.000	48.377	3.2	136	0.00
43		2,6-Dinitrotoluene	50.000	49.125	1.8	137	0.00
44		3-Nitroaniline	50.000	49.014	2.0	135	0.00
45	C	Acenaphthene	50.000	47.747	4.5	137	0.00
46	P	2,4-Dinitrophenol	50.000	50.328	-0.7	143	0.00
47	P	4-Nitrophenol	50.000	49.384	1.2	128	0.00
48		Dibenzofuran	50.000	48.430	3.1	136	0.00
49		2,4-Dinitrotoluene	50.000	48.681	2.6	135	0.00
50		Diethylphthalate	50.000	48.320	3.4	135	0.00
51		Fluorene	50.000	47.788	4.4	138	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	48.487	3.0	138	0.00
53		4-Nitroaniline	50.000	51.206	-2.4	131	0.00
54		1,2-Diphenylhydrazine	50.000	48.099	3.8	130	0.00
55	S	2,4,6-Tribromophenol	50.000	49.190	1.6	136	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	137	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	50.151	-0.3	140	0.00
58	C	n-Nitrosodiphenylamine	50.000	47.595	4.8	135	0.00
59		4-Bromophenyl Phenyl Ether	50.000	47.764	4.5	135	0.00
60		Hexachlorobenzene	50.000	48.794	2.4	135	0.00
61	C	Pentachlorophenol	50.000	49.651	0.7	141	0.00
62		Phenanthrene	50.000	47.660	4.7	136	0.00
63		Anthracene	50.000	47.659	4.7	136	0.00
64		Carbazole	50.000	47.146	5.7	133	0.00
65		Di-n-Butyl Phthalate	50.000	46.738	6.5	130	0.00
66	C	Fluoranthene	50.000	47.856	4.3	137	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	144	0.00
68		Benzidine	50.000	45.865	8.3	138	0.00
69		Pyrene	50.000	47.134	5.7	139	0.00
70	S	p-Terphenyl-d14	50.000	47.361	5.3	137	0.00
71		Butyl Benzyl Phthalate	50.000	46.376	7.2	134	0.00
72		Benzo[a]anthracene	50.000	47.836	4.3	145	0.00
73		3,3'-Dichlorobenzidine	50.000	48.213	3.6	141	0.00
74		Chrysene	50.000	47.578	4.8	144	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	46.932	6.1	139	0.00
76	I	Perylene-d12	40.000	40.000	0.0	146	0.00
77	C	Di-n-Octyl Phthalate	50.000	46.224	7.6	138	0.00

(#) = Out of Range

507 335

Data File : C:\HPCHEM\1\DATA\041299\3M16566.D Vial: 11
Acq On : 12 Apr 1999 21:13 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/12/99
Last Update : Tue Apr 13 07:40:09 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	47.549	4.9	148	0.00
79		Benzo[k]fluoranthene	50.000	48.779	2.4	147	0.00
80	C	Benzo[a]pyrene	50.000	48.526	2.9	147	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	48.363	3.3	151	0.02
82		Dibenz[ah]anthracene	50.000	48.725	2.5	152	0.02
83		Benzo[ghi]perylene	50.000	48.952	2.1	150	0.02

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

507 337

Analytical Method : 8270C

AAB # : WG55881

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55496-03

Initial Calibration HPMS3 clc

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	0.033	0.70	
1,2-Dichlorobenzene	0.033	0.70	
1,3-Dichlorobenzene	0.032	0.70	
1,4-Dichlorobenzene	0.034	0.70	
2,4,5-Trichlorophenol	0.047	3.3	
2,4,6-Trichlorophenol	0.042	0.30	
2,4-Dichlorophenol	0.041	0.30	
2,4-Dimethylphenol	0.037	0.30	
2,4-Dinitrophenol	0.11	3.3	
2,4-Dinitrotoluene	0.042	0.70	
2,6-Dinitrotoluene	0.04	0.70	
2-Chloronaphthalene	0.04	0.70	
2-Chlorophenol	0.034	0.30	
2-Methylnaphthalene	0.037	0.70	
2-Methylphenol	0.063	0.30	
2-Nitroaniline	0.046	3.3	
2-Nitrophenol	0.032	0.30	
3,3'-Dichlorobenzidine	0.15	1.3	
3-Nitroaniline	0.072	3.3	
4,6-Dinitro-2-methylphenol	0.036	3.3	
4-Bromophenyl-phenylether	0.038	0.70	
4-Chloro-3-methylphenol	0.046	1.3	
4-Chloroaniline	0.053	1.3	
4-Chlorophenyl-phenyl ether	0.044	0.70	

Comments:

507 338

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : **8270C**

AAB # : **WG55881**

Lab Name : **Kemron Environmental Services**

Contract# **F41624-95-D-8003-0023**

Units: **mg/kg**

Method Blank ID: **WG55496-03**

Initial Calibration **HPMS3 clc**

Analyte	Method Blank	RL	Q
4-Methylphenol	0.041	0.30	
4-Nitroaniline	0.04	3.3	
Acenaphthene	0.042	0.70	
Acenaphthylene	0.042	0.70	
Anthracene	0.035	0.70	
Benzo(a)anthracene	0.029	0.70	
Benzo(a)pyrene	0.026	0.70	
Benzo(b)fluoranthene	0.028	0.70	
Benzo(g,h,i)Perylene	0.037	0.70	
Benzoic acid	0.02	1.6	
Benzyl alcohol	0.06	1.3	
Bis(2-Chloroethoxy)Methane	0.047	0.70	
Bis(2-Chloroethyl)ether	0.041	0.70	
Butylbenzylphthalate	0.031	0.70	
Chrysene	0.041	0.70	
Di-N-Butylphthalate	0.031	0.70	
Di-n-octylphthalate	0.031	0.70	
Dibenzo(a,h)Anthracene	0.039	0.70	
Dibenzofuran	0.043	0.70	
Diethylphthalate	0.049	0.70	
Dimethylphthalate	0.046	0.70	
Fluoranthene	0.028	0.70	
Fluorene	0.044	0.70	
Hexachlorobenzene	0.04	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG55881

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55496-03

Initial Calibration HPMS3 clc

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	0.037	0.70	
Hexachlorocyclopentadiene	0.087	0.70	
Hexachloroethane	0.033	0.70	
Indeno(1,2,3-cd)pyrene	0.036	0.70	
Isophorone	0.043	0.70	
N-Nitroso-di-n-propylamine	0.035	0.70	
N-Nitrosodiphenylamine	0.048	0.70	
Naphthalene	0.036	0.70	
Nitrobenzene	0.034	0.70	
Pentachlorophenol	0.02	3.3	
Phenanthrene	0.043	0.70	
Phenol	0.032	0.30	
Pyrene	0.03	0.70	
bis(2-Chloroisopropyl)ether	0.041	0.70	
bis(2-Ethylhexyl)phthalate	0.039	0.70	
p-Nitrophenol	0.057	1.6	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55881

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55496-04

Units: mg/kg

Initial Calibration HPMS3 clc

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.67	1.10	65.9	34 - 152	
1,2-Dichlorobenzene	1.67	1.16	69.5	32 - 135	
1,3-Dichlorobenzene	1.67	1.13	67.7	26 - 135	
1,4-Dichlorobenzene	1.67	1.09	65.3	25 - 135	
2,4,5-Trichlorophenol	1.67	1.39	83.2	25 - 175	
2,4,6-Trichlorophenol	1.67	1.33	79.6	29 - 138	
2,4-Dichlorophenol	1.67	1.20	71.9	36 - 135	
2,4-Dimethylphenol	1.67	1.30	77.8	35 - 149	
2,4-Dinitrophenol	1.67	1.22	73.1	25 - 161	
2,4-Dinitrotoluene	1.67	1.53	91.6	29 - 149	
2,6-Dinitrotoluene	1.67	1.46	87.4	41 - 135	
2-Chloronaphthalene	1.67	1.25	74.9	50 - 135	
2-Chlorophenol	1.67	1.17	70.1	31 - 135	
2-Methylnaphthalene	1.67	1.19	71.3	31 - 135	
2-Methylphenol	1.67	1.26	75.4	25 - 135	
2-Nitroaniline	1.67	1.62	97	40 - 135	
2-Nitrophenol	1.67	1.17	70.1	34 - 135	
3,3'-Dichlorobenzidine	1.67	0	0	25 - 175	*
3-Nitroaniline	1.67	1.53	91.6	41 - 135	
4,6-Dinitro-2-methylphenol	1.67	1.71	102.4	25 - 144	
4-Bromophenyl-phenylether	1.67	1.43	85.6	43 - 137	
4-Chloro-3-methylphenol	1.67	1.39	83.2	34 - 135	
4-Chloroaniline	1.67	0.535	32	35 - 146	*
4-Chlorophenyl-phenyl ether	1.67	1.33	79.6	41 - 142	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

LCS ID: WG55496-04 Units: mg/kg Initial Calibration HPMS3 clc

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	1.67	1.27	76	25 - 135	
4-Nitroaniline	1.67	0.722	43.2	30 - 153	
Acenaphthene	1.67	1.26	75.4	39 - 135	
Acenaphthylene	1.67	1.32	79	37 - 135	
Anthracene	1.67	1.41	84.4	35 - 175	
Benzo(a)anthracene	1.67	1.54	92.2	41 - 143	
Benzo(a)pyrene	1.67	1.76	105.4	31 - 135	
Benzo(b)fluoranthene	1.67	1.83	109.6	27 - 135	
Benzo(g,h,i)Perylene	1.67	2.01	120.4	25 - 159	
Benzoic acid	1.67	1.01	60.5	25 - 172	
Benzyl alcohol	1.67	1.28	76.6	25 - 135	
Bis(2-Chloroethoxy)Methane	1.67	1.29	77.2	39 - 135	
Bis(2-Chloroethyl)ether	1.67	1.30	77.8	34 - 135	
Butylbenzylphthalate	1.67	1.68	100.6	25 - 135	
Chrysene	1.67	1.60	95.8	45 - 143	
Di-N-Butylphthalate	1.67	1.50	89.8	25 - 136	
Di-n-octylphthalate	1.67	2.08	124.6	28 - 137	
Dibenzo(a,h)Anthracene	1.67	2.23	133.5	40 - 135	
Dibenzofuran	1.67	1.29	77.2	42 - 135	
Diethylphthalate	1.67	1.41	84.4	27 - 135	
Dimethylphthalate	1.67	1.40	83.8	25 - 175	
Fluoranthene	1.67	1.41	84.4	37 - 135	
Fluorene	1.67	1.27	76	38 - 149	
Hexachlorobenzene	1.67	1.54	92.2	36 - 143	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55881

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55496-04

Units: mg/kg

Initial Calibration HPMS3 clc

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	1.67	1.28	76.6	25 - 135	
Hexachlorocyclopentadiene	1.67	1.47	88	31 - 135	
Hexachloroethane	1.67	1.22	73.1	25 - 163	
Indeno(1,2,3-cd)pyrene	1.67	2.01	120.4	25 - 170	
Isophorone	1.67	1.51	90.4	25 - 175	
N-Nitroso-di-n-propylamine	1.67	1.39	83.2	27 - 135	
N-Nitrosodiphenylamine	1.67	1.56	93.4	25 - 135	
Naphthalene	1.67	1.15	68.9	40 - 135	
Nitrobenzene	1.67	1.25	74.9	36 - 143	
Pentachlorophenol	1.67	1.55	92.8	38 - 146	
Phenanthrene	1.67	1.42	85	44 - 135	
Phenol	1.67	1.13	67.7	25 - 135	
Pyrene	1.67	1.44	86.2	37 - 146	
bis(2-Chloroisopropyl)ether	1.67	1.33	79.6	26 - 175	
bis(2-Ethylhexyl)phthalate	1.67	1.76	105.4	25 - 139	
p-Nitrophenol	1.67	1.77	106	25 - 141	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SUN0104AA Units: mg/kg % Solids: 82

MS ID: S13SUN0104AA MS MSD ID: S13SUN0104AA MSD Initial Calibration HPMS3 12-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
1,2,4-Trichlorobenzene		2.04	1.01	49.5	1.27	62.3	22.9	34 - 152	30	
1,2-Dichlorobenzene		2.04	0.893	43.8	1.27	62.3	34.8	32 - 135	30	*
1,3-Dichlorobenzene		2.04	0.837	41	1.22	59.8	37.2	26 - 135	30	*
1,4-Dichlorobenzene		2.04	0.822	40.3	1.19	58.3	36.4	25 - 135	30	*
2,4,5-Trichlorophenol		2.04	1.3	63.7	1.65	80.9	23.1	25 - 175	30	
2,4,6-Trichlorophenol		2.04	1.24	60.8	1.56	76.5	22.6	29 - 138	30	
2,4-Dichlorophenol		2.04	1.12	54.9	1.43	70.1	24.5	36 - 135	30	
2,4-Dimethylphenol		2.04	1.13	55.4	1.41	69.1	22.1	35 - 149	30	
2,4-Dinitrophenol		2.04	0.95	46.6	1.04	51	9	25 - 161	30	
2,4-Dinitrotoluene		2.04	1.46	71.6	1.71	83.8	15.4	29 - 149	30	
2,6-Dinitrotoluene		2.04	1.39	68.1	1.6	78.4	13.9	41 - 135	30	
2-Chloronaphthalene		2.04	1.16	56.9	1.44	70.6	21.1	50 - 135	30	
2-Chlorophenol		2.04	0.982	48.1	1.27	62.3	25.5	31 - 135	30	
2-Methylnaphthalene		2.04	1.08	52.9	1.3	63.7	19.3	31 - 135	30	
2-Methylphenol		2.04	1.09	53.4	1.38	67.6	23	25 - 135	30	
2-Nitroaniline		2.04	1.4	68.6	1.63	79.9	15.3	40 - 135	30	
2-Nitrophenol		2.04	1.1	53.9	1.27	62.3	13.6	34 - 135	30	
3,3'-Dichlorobenzidine		2.04	0.354	17.4	0.64	31.4	57.7	25 - 175	30	*
3-Nitroaniline		2.04	1.38	67.6	1.61	78.9	15.5	41 - 135	30	
4,6-Dinitro-2-methylphenol		2.04	1.61	78.9	1.79	87.7	10.6	25 - 144	30	
4-Bromophenyl-phenylether		2.04	1.28	62.7	1.55	76	19	43 - 137	30	
4-Chloro-3-methylphenol		2.04	1.28	62.7	1.59	77.9	21.3	34 - 135	30	
4-Chloroaniline		2.04	0.81	39.7	0.613	30	27.6	35 - 146	30	*
4-Chlorophenyl-phenyl ether		2.04	1.27	62.3	1.51	74	17.5	41 - 142	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SUN0104AA Units: mg/kg % Solids: 82

MS ID: S13SUN0104AA MS MSD ID: S13SUN0104AA MSD Initial Calibration HPMS3 12-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
4-Methylphenol		2.04	1.08	52.9	1.37	67.2	23.1	25 - 135	30	
4-Nitroaniline		2.04	1.62	79.4	1.54	75.5	5.4	30 - 153	30	
Acenaphthene		2.04	1.18	57.8	1.41	69.1	18.3	39 - 135	30	
Acenaphthylene		2.04	1.23	60.3	1.5	73.5	19.6	37 - 135	30	
Anthracene		2.04	1.39	68.1	1.57	77	12.3	35 - 175	30	
Benzo(a)anthracene	0.22	2.04	1.51	63.7	1.8	77.9	17.6	41 - 143	30	
Benzo(a)pyrene	0.15	2.04	1.51	66.7	1.73	77.5	13.5	31 - 135	30	
Benzo(b)fluoranthene	0.2	2.04	1.43	60.3	1.65	71.1	14.3	27 - 135	30	
Benzo(g,h,i)Perylene	0.16	2.04	1.68	74.5	1.74	77.5	3.6	25 - 159	30	
Benzoic acid		2.04	0.346	17	0.471	23.1	30.4	25 - 172	30	
Benzyl alcohol		2.04	1.03	50.5	1.29	63.2	22.5	25 - 135	30	
Bis(2-Chloroethoxy)Methane		2.04	1.11	54.4	1.32	64.7	17.1	39 - 135	30	
Bis(2-Chloroethyl)ether		2.04	1.02	50	1.28	62.7	22.9	34 - 135	30	
Butylbenzylphthalate		2.04	1.66	81.4	1.71	83.8	2.9	25 - 135	30	
Chrysene	0.22	2.04	1.57	66.2	1.88	81.4	17.7	45 - 143	30	
Di-N-Butylphthalate		2.04	1.41	69.1	1.56	76.5	9.8	25 - 136	30	
Di-n-octylphthalate		2.04	1.61	78.9	1.61	78.9	0	28 - 137	30	
Dibenzo(a,h)Anthracene		2.04	1.43	70.1	1.54	75.5	7.4	40 - 135	30	
Dibenzofuran		2.04	1.22	59.8	1.49	73	19.9	42 - 135	30	
Diethylphthalate		2.04	1.44	70.6	1.6	78.4	10.4	27 - 135	30	
Dimethylphthalate		2.04	1.34	65.7	1.54	75.5	13.6	25 - 175	30	
Fluoranthene	0.35	2.04	1.19	41.2	1.54	58.3	25.6	37 - 135	30	
Fluorene		2.04	1.28	62.7	1.55	76	19	38 - 149	30	
Hexachlorobenzene		2.04	1.48	72.5	1.77	86.8	18	36 - 143	30	

Comments:

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ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG55881

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SUN0104AA Units: mg/kg % Solids: 82

MS ID: S13SUN0104AA MS MSD ID: S13SUN0104AA MSD Initial Calibration HPMS3 12-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Hexachlorobutadiene		2.04	1.04	51	1.35	66.2	26.3	25 - 135	30	
Hexachlorocyclopentadiene		2.04	1.08	52.9	1.51	74	33.2	31 - 135	30	*
Hexachloroethane		2.04	0.867	42.5	1.24	60.8	35.7	25 - 163	30	*
Indeno(1,2,3-cd)pyrene	0.15	2.04	1.63	72.5	1.8	80.9	9.9	25 - 170	30	
Isophorone		2.04	1.27	62.3	1.5	73.5	16.7	25 - 175	30	
N-Nitroso-di-n-propylamine		2.04	1.07	52.5	1.28	62.7	18.3	27 - 135	30	
N-Nitrosodiphenylamine		2.04	1.54	75.5	1.82	89.2	16.7	25 - 135	30	
Naphthalene		2.04	1.06	52	1.28	62.7	19.2	40 - 135	30	
Nitrobenzene		2.04	1.03	50.5	1.33	65.2	25.7	36 - 143	30	
Pentachlorophenol		2.04	1.46	71.6	1.68	82.4	14	38 - 146	30	
Phenanthrene	0.1	2.04	1.43	65.2	1.66	76.5	15	44 - 135	30	
Phenol		2.04	1.06	52	1.27	62.3	17.9	25 - 135	30	
Pyrene	0.29	2.04	1.41	54.9	1.62	65.2	13.7	37 - 146	30	
bis(2-Chloroisopropyl)ether		2.04	1.0	49	1.26	61.8	22.2	26 - 175	30	
bis(2-Ethylhexyl)phthalate		2.04	1.87	91.7	1.8	88.2	3.3	25 - 139	30	
p-Nitrophenol		2.04	1.66	81.4	1.78	87.3	7.1	25 - 141	30	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C AAB#: WG55881

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0104AA	1-Apr-99	2-Apr-99	5-Apr-99	14	4	11-Apr-99	40	6	
S13SUN0104AA/MS	1-Apr-99	2-Apr-99	5-Apr-99	14	4	12-Apr-99	40	7	
S13SSB1014AA/MSD	1-Apr-99	2-Apr-99	5-Apr-99	14	4	12-Apr-99	40	7	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/11/99 Column ID 1335
Instrument ID HP1453 Analyst ndc
Data Subdirectory 041199

SOP # MSS01 Rev. # 7 ✓ 82
SOP # MSS02 Rev. # 1 62

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No

Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3M16529	50ppm DFTPP	1	DFTPP	✓	S40-26
16530	50ppm BNA STD		BNA	✓	S40-35-4
16531	4ppm			✓	-1
16532	20ppm			✓	-3
16533	50ppm			✓	-5
16534	100ppm			✓	-6
16535	120ppm			✓	-7
16536	50ppm Alt. source			✓	S40-39
16537	50ppm DFTPP		DFTPP	✓	S40-26
16538	50ppm BNA STD		BNA	✓	S40-35-4
16539	WG55496-03 SOIL BLK 4/5 W12P153			✓	
16540	⊥ -04 ⊥ LCS ⊥ ⊥			✓	
16542	L9904064-08 SOIL			✓	

Comments:

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/11/99 Instrument ID 11PMS3 Data Subdirectory 041199 Column ID DB5-

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m16543	L9904064-09 SOIL MS W6-55496-05	1	BN1	RR	154-6/ow
16544	" -10 MSD " -06			RR	
16545	L9904069-01			✓	
16546	" -02 MS W6-55498 07			RR	154/ow
16547	" -03 MSD " -08			"	
16548	" -04			✓	
16549	" -05			✓	
16550	" -06			RR	154-6/ow
16551	" -07			"	"
16552	" -08			"	"
16553	" -09			✓	
16554	" -11			RR	154-6/ow
16555	" -12			"	

mjc 4/12/99

Comments

Reviewed By: DRF 4/12/99

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards
SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/12/99 Column ID MS 5 Analyst mdc
Instrument ID HP MS3 Data Subdirectory 041299

SOP # MSS01 Rev. # 7 ✓ 8270
SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___

Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3M16556	50ppm DFTPP	1	DFTPP	✓	S40-26
16557	50ppm BNA STD		BNA	CL	S40-35-4
16558	4ppm			✓	S40-44-1
16559	20ppm			✓	-3
16560	50ppm			✓	-4
16561	80ppm			✓	-5
16562	100ppm			✓	-6
16563	120ppm			✓	-7
16564	50ppm Alt. source			✓	S40-39
16565	50ppm DFTPP		DFTPP	✓	
16566	50ppm BNA STD		BNA	✓	
16567	WG55496-05 L9904064-09 MS SOIL KR			✓	
16568	-06 -10 MSD			✓	

Comments:

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/12/99 Instrument ID HP453 Data Subdirectory 041299 Column ID DB5

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3M 16569	WG55496-07 L9904069-02 MS soil RR	1	BNA	✓	
3M 16570	-08 -03 MSD			✓	
16571	L9904069-06 soil RR			✓	
16572	-07			✓	
16573	-08			✓	
16574	-11			✓	
16575	-12			✓	
~~16578~~ 16576	L9903586-01			✓	
~~16579~~ 16577	-02			✓	
~~16580~~ 16578	-03			RR	194 low
~~16581~~ 16579	-04				
~~16582~~ 16580	-05				155 low
~~16583~~ 16581	-06			✓	
16582	-07			✓	
16583	-08			RR	155.6 low

mdc 4/13/99

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

Reviewed By: [signature] 4/13/99

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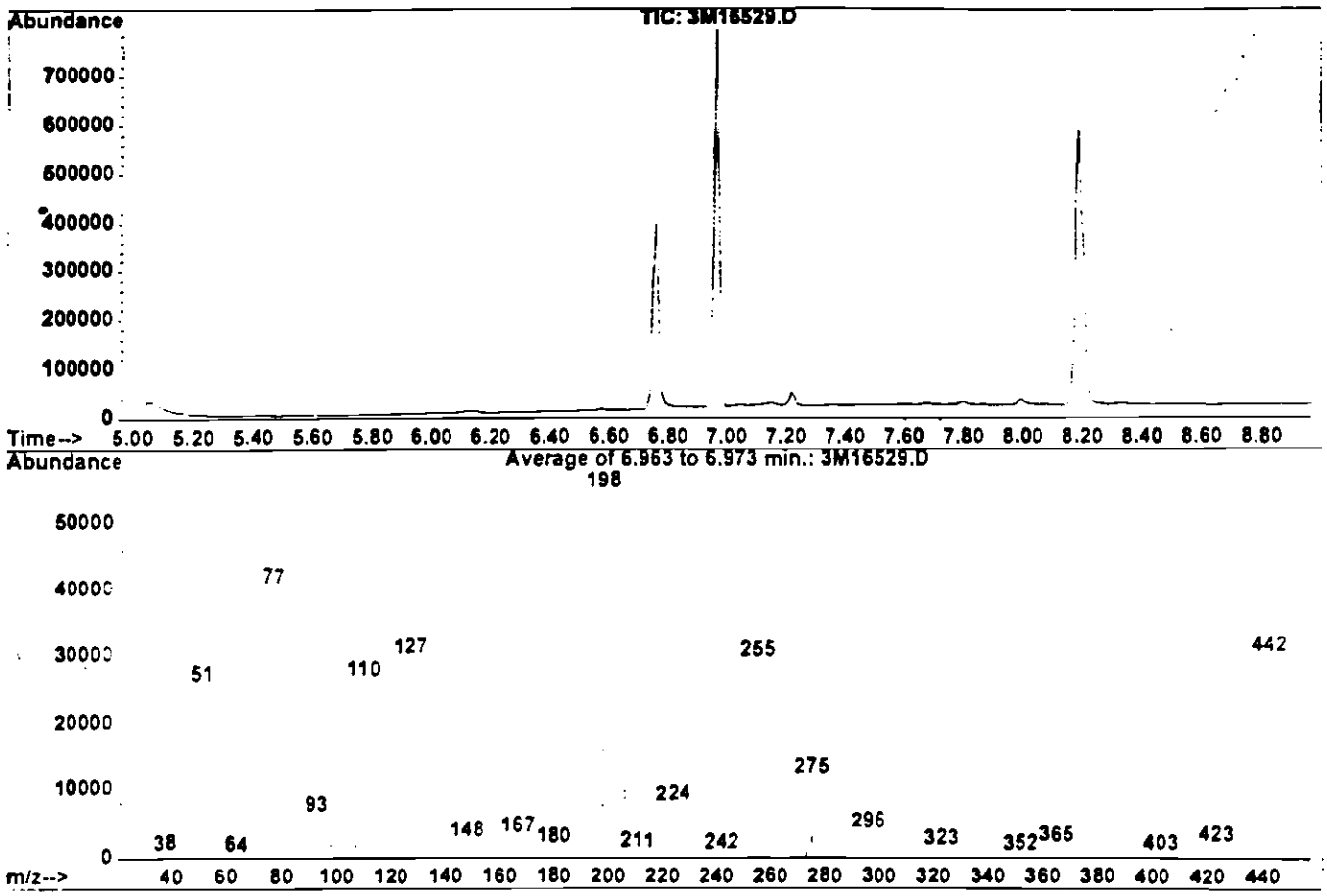
Data File : C:\HPCHEM\1\DATA\041199\3M16529.D Vial: 1
Acq On : 11 Apr 1999 9:02 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



Spectrum Information: Average of 6.963 to 6.973 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	25571	PASS
68	69	0.00	2	1.4	525	PASS
69	198	0.00	100	66.2	36304	PASS
70	69	0.00	2	0.6	231	PASS
127	198	40	60	53.7	29463	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54820	PASS
199	198	5	9	6.8	3728	PASS
275	198	10	30	21.2	11606	PASS
365	198	1	100	2.7	1497	PASS
441	443	0.01	100	77.0	4509	PASS
442	198	40	100	54.1	29640	PASS
443	442	17	23	19.7	5853	PASS

3M16529.D DFTPP.M Mon Apr 12 13:39:05 1999 HPMS3

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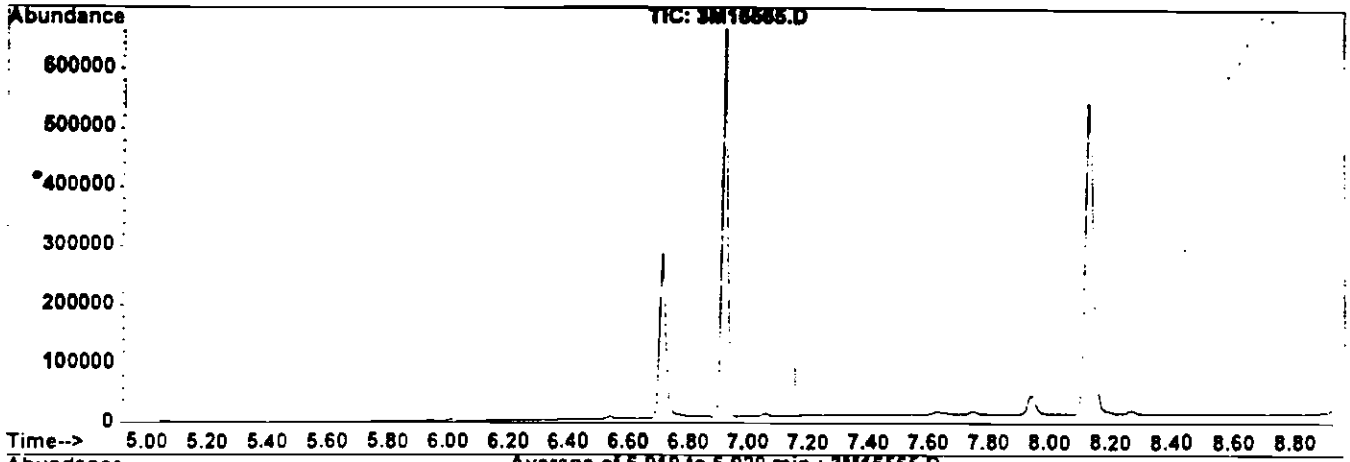
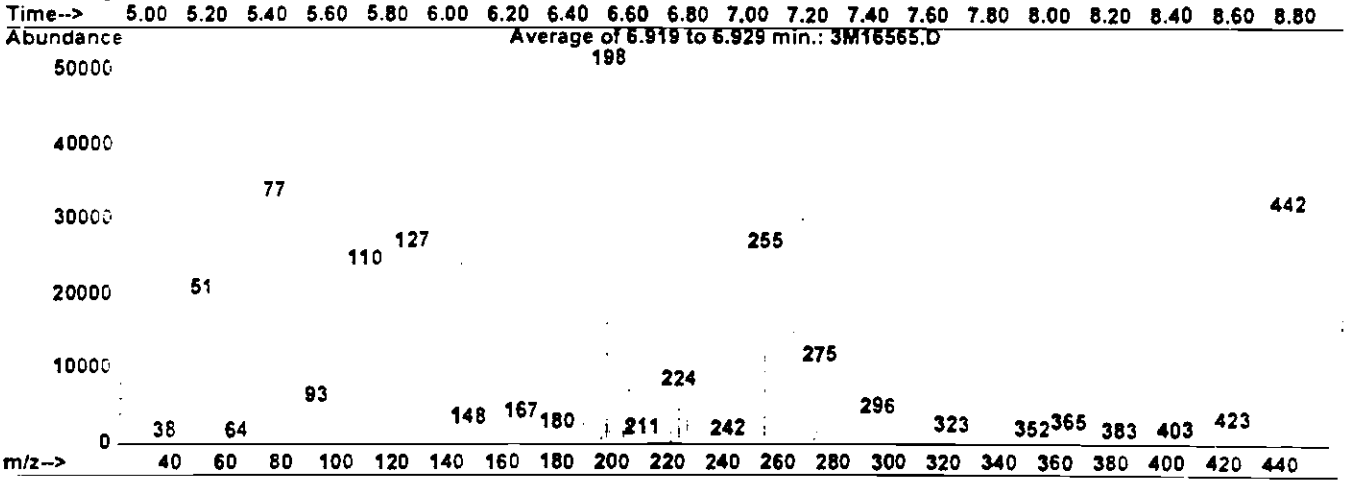
Data File : C:\HPCHEM\1\DATA\041299\3M16565.D
Acq On : 12 Apr 1999 20:53
Sample : 50PPM dftpp
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 10
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

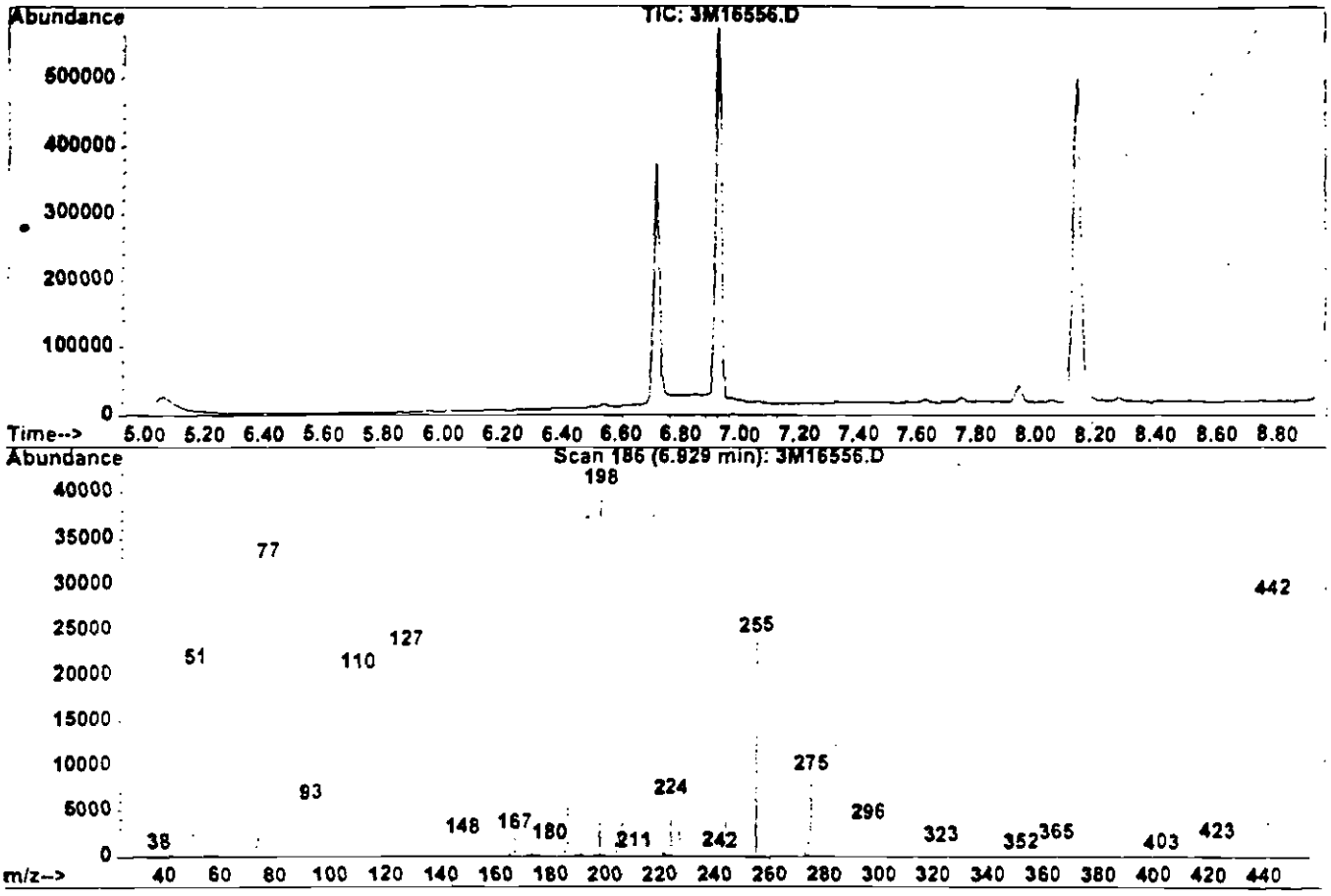




Spectrum Information: Average of 6.919 to 6.929 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.4	19362	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.6	29002	PASS
70	69	0.00	2	0.3	91	PASS
127	198	40	60	50.6	25500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	50372	PASS
199	198	5	9	6.8	3423	PASS
275	198	10	30	20.2	10194	PASS
365	198	1	100	2.5	1238	PASS
441	443	0.01	100	74.5	4363	PASS
442	198	40	100	60.6	30540	PASS
443	442	17	23	19.2	5854	PASS

Data File : C:\HPCHEM\1\DATA\041299\3M16556.D Vial: 1
Acq On : 12 Apr 1999 13:41 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

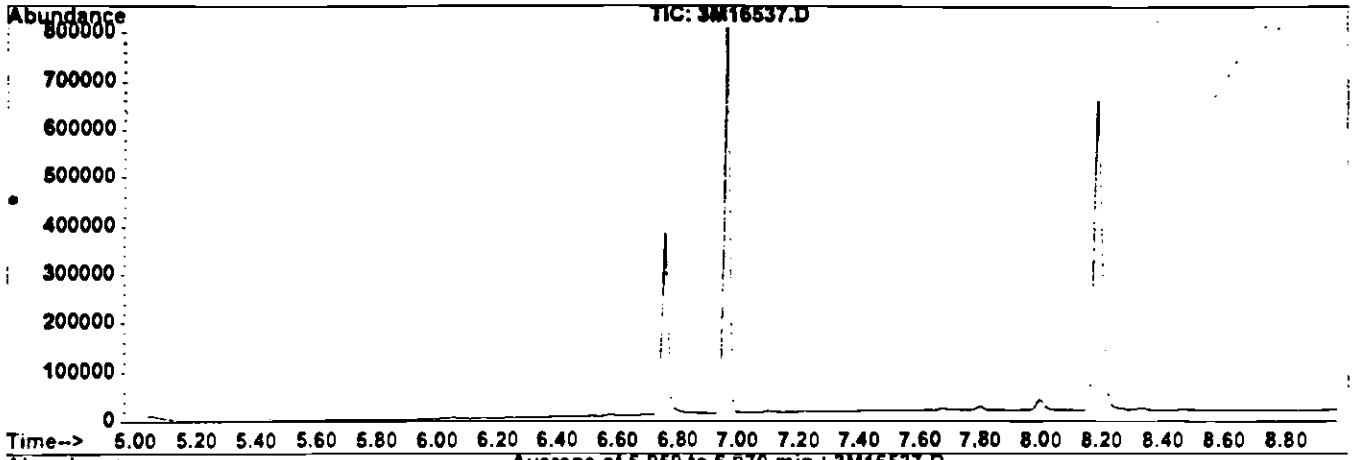


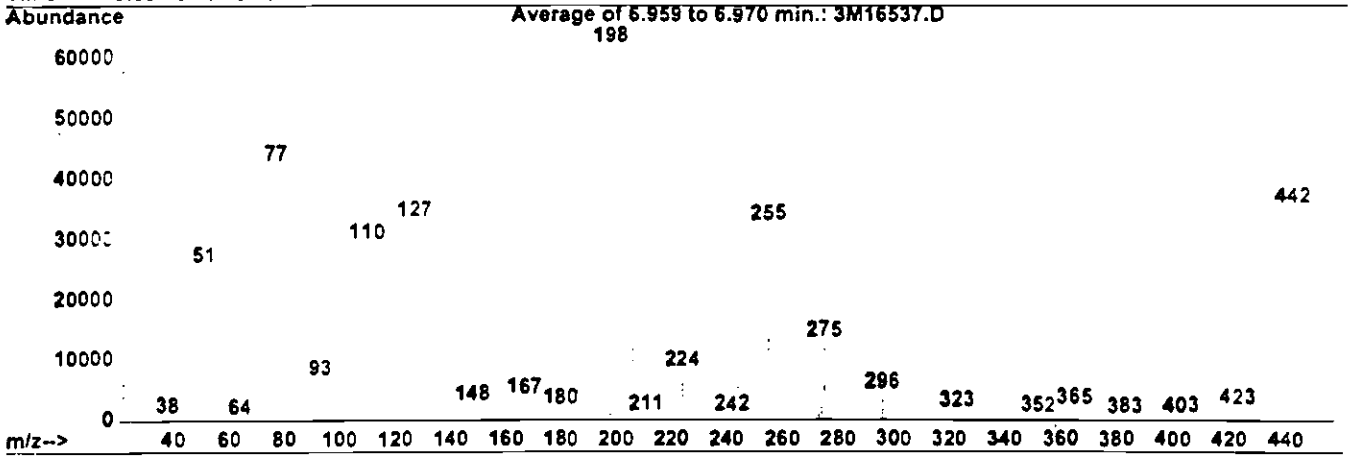
Spectrum Information: Scan 186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.8	20600	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	76.4	30976	PASS
70	69	0.00	2	1.1	344	PASS
127	198	40	60	55.6	22528	PASS
197	198	0.00	1	0.5	205	PASS
198	198	100	100	100.0	40528	PASS
199	198	5	9	7.0	2833	PASS
275	198	10	30	21.7	8801	PASS
365	198	1	100	3.3	1355	PASS
441	443	0.01	100	70.2	3989	PASS
442	198	40	100	69.7	28240	PASS
443	442	17	23	20.1	5680	PASS

Data File : C:\HPCHEM\1\DATA\041199\3M16537.D
Acq On : 11 Apr 1999 14:28
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 9
Operator: mdc
Inst : HPMS3
Multiplr: 1.00





Spectrum Information: Average of 6.959 to 6.970 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	25549	PASS
68	69	0.00	2	0.5	206	PASS
69	198	0.00	100	61.9	38476	PASS
70	69	0.00	2	0.5	176	PASS
127	198	40	60	52.9	32896	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62172	PASS
199	198	5	9	6.9	4298	PASS
275	198	10	30	20.7	12871	PASS
365	198	1	100	2.5	1548	PASS
441	443	0.01	100	77.6	5147	PASS
442	198	40	100	56.5	35144	PASS
443	442	17	23	18.9	6632	PASS

507 351

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270C
AAB # : WG60037
Lab Name : Kemron Environmental Services
Contract # : F41624-95-D-8003-0023
Base/Command : Carswells AFB
Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SUN0100BE	L9906512-05

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 13-JUL-99
Title: Laboratory Manager

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
1)	I	•1,4-Dichlorobenzene-d	ISTD							
2)		Pyridine	0.854	0.741	0.842	0.721	0.737	0.758	0.775	7.40
3)		n-Nitrosodimethylam	0.419	0.401	0.446	0.386	0.391	0.386	0.405	5.90
4)	S	2-Fluorophenol	1.839	1.748	1.878	1.702	1.725	1.699	1.765	4.26
5)		Aniline	2.114	1.747	1.848	1.536	1.456	1.421	1.687	15.88
6)	S	Phenol-d5	1.983	1.856	1.990	1.732	1.731	1.712	1.834	7.03
7)	C	Phenol	1.798	1.650	1.748	1.511	1.491	1.475	1.612	8.69
8)		bis(2-Chloroethyl)e	1.471	1.330	1.390	1.189	1.233	1.150	1.294	9.60
9)		2-Chlorophenol	1.645	1.512	1.567	1.388	1.364	1.356	1.472	8.20
10)		1,3-Dichlorobenzene	1.650	1.529	1.547	1.364	1.331	1.296	1.453	9.76
11)	C	1,4-Dichlorobenzene	1.717	1.551	1.580	1.371	1.332	1.262	1.469	11.86
12)		Benzyl Alcohol	1.041	1.013	1.091	0.975	0.977	0.968	1.011	4.77
13)	C	1,2-Dichlorobenzene	1.610	1.482	1.496	1.304	1.250	1.188	1.388	11.88
14)		2-Methylphenol	1.277	1.198	1.244	1.079	1.075	1.051	1.154	8.46
15)		bis(2-Chloroisoprop	1.727	1.536	1.522	1.244	1.190	1.136	1.392	16.94
16)		4-Methylphenol	1.865	1.738	1.832	1.596	1.582	1.560	1.695	7.94
17)	P	n-Nitrosodipropylam	0.679	0.621	0.642	0.555	0.555	0.546	0.600	9.[illegible]
18)		Hexachloroethane	0.835	0.778	0.793	0.697	0.678	0.660	0.740	9.6[illegible]
19)	I	Naphthalene-d8	ISTD							
20)	S	Nitrobenzene-d5	0.449	0.410	0.434	0.379	0.371	0.365	0.401	8.77
21)		Nitrobenzene	0.356	0.317	0.331	0.288	0.280	0.275	0.308	10.49
22)		Isophorone	0.685	0.618	0.641	0.555	0.539	0.527	0.594	10.68
23)	C	2-Nitrophenol	0.241	0.238	0.255	0.213	0.199	0.189	0.223	11.72
24)		2,4-Dimethylphenol	0.358	0.329	0.350	0.306	0.280	0.275	0.316	11.10
25)		bis(2-Chloroethoxy)	0.455	0.422	0.440	0.369	0.355	0.347	0.398	11.75
26)		Benzoic Acid		0.142	0.199	0.203	0.213	0.218	0.195	15.73
27)	C	2,4-Dichlorophenol	0.318	0.302	0.310	0.279	0.266	0.261	0.289	8.24
28)		1,2,4-Trichlorobenz	0.338	0.309	0.317	0.282	0.267	0.258	0.295	10.57
29)		Naphthalene	1.172	1.076	1.083	0.912	0.844	0.799	0.981	15.30
30)		4-Chloroaniline	0.601	0.566	0.554	0.486	0.457	0.428	0.515	13.25
31)	C	Hexachlorobutadiene	0.187	0.174	0.181	0.163	0.153	0.148	0.168	9.34
32)	C	4-Chloro-3-Methylph	0.392	0.373	0.387	0.342	0.331	0.315	0.357	8.88
33)		2-Methylnaphthalene	0.677	0.631	0.616	0.516	0.480	0.443	0.560	16.75
34)	I	Acenaphthene-d10	ISTD							
35)	P	Hexachlorocyclopent	0.321	0.372	0.429	0.393	0.399	0.378	0.382	9.45
36)	C	2,4,6-Trichlorophen	0.415	0.417	0.444	0.402	0.410	0.381	0.412	4.98
37)		2,4,5-Trichlorophen	0.468	0.445	0.489	0.425	0.410	0.396	0.439	8.04
38)	S	2-Fluorobiphenyl	1.545	1.416	1.462	1.218	1.124	1.070	1.306	14.95
39)		2-Chloronaphthalene	1.371	1.255	1.288	1.107	1.070	0.992	1.181	12.36
40)		2-Nitroaniline	0.355	0.337	0.369	0.321	0.316	0.312	0.335	6.8[illegible]
41)		Dimethylphthalate	1.589	1.475	1.528	1.367	1.304	1.255	1.420	9.[illegible]

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
42)		Acenaphthylene	2.222	2.080	2.150	1.832	1.711	1.600	1.933	13.13
43)		2,6-Dinitrotoluene	0.374	0.377	0.407	0.379	0.380	0.360	0.379	4.09
44)		3-Nitroaniline	0.551	0.557	0.595	0.544	0.539	0.522	0.551	4.47
45)	C	Acenaphthene	1.266	1.206	1.255	1.068	0.985	0.901	1.114	13.64
46)	P	2,4-Dinitrophenol		0.177	0.235	0.233	0.229	0.215	0.218	11.01
47)	P	4-Nitrophenol		0.248	0.281	0.256	0.249	0.238	0.254	6.41
48)		Dibenzofuran	1.842	1.739	1.780	1.516	1.435	1.355	1.611	12.55
49)		2,4-Dinitrotoluene	0.479	0.508	0.550	0.504	0.490	0.487	0.503	5.01
50)		Diethylphthalate	1.640	1.538	1.538	1.350	1.271	1.214	1.425	11.97
51)		Fluorene	1.476	1.324	1.310	1.073	1.007	0.896	1.181	18.82
52)		4-Chlorophenyl Phen	0.643	0.610	0.632	0.559	0.533	0.491	0.578	10.45
53)		4-Nitroaniline	0.497	0.428	0.366	0.278	0.250	0.229	0.341	31.36
54)		1,2-Diphenylhydrazi	1.420	1.279	1.315	1.140	1.096	1.091	1.224	11.02
55)	S	2,4,6-Tribromopheno	0.230	0.231	0.261	0.253	0.246	0.246	0.244	4.98
56)	I	Phenanthrene-d10	ISTD							
57)		4,6-Dinitro-2-Methy		0.198	0.216	0.194	0.186	0.178	0.195	7.39
[illegible])	C	n-Nitrosodiphenylam	0.634	0.572	0.572	0.468	0.434	0.381	0.510	19.11
[illegible])		4-Bromophenyl Pheny	0.210	0.205	0.212	0.187	0.179	0.170	0.194	9.18
60)		Hexachlorobenzene	0.281	0.271	0.280	0.244	0.221	0.215	0.252	11.72
61)	C	Pentachlorophenol		0.152	0.173	0.164	0.160	0.159	0.161	4.92
62)		Phenanthrene	1.351	1.226	1.162	0.946	0.904	0.805	1.066	19.89
63)		Anthracene	1.248	1.172	1.177	0.933	0.829	0.793	1.025	19.27
64)		Carbazole	1.305	1.149	1.075	0.888	0.808	0.743	0.995	21.84
65)		Di-n-Butyl Phthalat	1.909	1.662	1.562	1.234	1.053	1.006	1.404	25.81
66)	C	Fluoranthene	1.289	1.215	1.158	1.004	0.961	0.876	1.084	14.84
67)	I	Chrysene-d12	ISTD							
68)		Benzidine		0.115	0.045	0.030	0.035	0.026	0.050	73.67
69)		Pyrene	1.508	1.392	1.483	1.140	1.066	1.005	1.266	17.50
70)	S	p-Terphenyl-d14	1.073	1.007	1.086	0.840	0.776	0.719	0.917	17.31
71)		Butyl Benzyl Phthal	0.983	0.906	0.943	0.745	0.705	0.670	0.825	16.27
72)		Benzo[a]anthracene	1.280	1.194	1.298	1.128	1.109	1.075	1.181	7.85
73)		3,3'-Dichlorobenzid	0.482	0.379	0.316	0.291	0.306	0.321	0.349	20.48
74)		Chrysene	1.179	1.137	1.241	1.065	1.026	0.993	1.107	8.61
75)		bis(2-Ethylhexyl)ph	1.367	1.235	1.275	1.013	0.962	0.917	1.128	16.61
76)	I	Perylene-d12	ISTD							
77)	C	Di-n-Octyl Phthalat	2.269	2.127	2.309	1.890	1.793	1.750	2.023	12.08
78)		Benzo[b]fluoranthen	1.457	1.270	1.466	1.342	1.324	1.314	1.362	5.91
79)		Benzo[k]fluoranthen	1.333	1.248	1.315	1.113	1.053	1.019	1.180	11.56
80)	C	Benzo[a]pyrene	1.204	1.179	1.293	1.154	1.139	1.123	1.182	5.19
[illegible])		Indeno[1,2,3-cd]pyr	1.453	1.446	1.609	1.458	1.477	1.482	1.487	4.10
[illegible])		Dibenz[ah]anthracen	1.145	1.167	1.308	1.179	1.187	1.188	1.195	4.80

(#) = Out of Range

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

	Compound	4	20	50	80	100	120	Avg	%RSD
83)	Benzo[ghi]perylene	1.276	1.275	1.427	1.329	1.363	1.384	1.342	4.53

(#) = Out of Range

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG60037
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS3
Date of Initial Calibration: 23-Jun-99
2nd Source ID: ALT HPMS3 23-JUN-1999

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	2.32	
Hexachlorocyclopentadiene *	7.74	
2,4-Dinitrophenol *	36.70	*
4-Nitrophenol *	8.76	
Phenol #	0.70	
1,4-Dichlorobenzene #	1.68	
2-Nitrophenol #	8.04	
2,4-Dichlorophenol #	6.38	
Hexachlorobutadiene #	7.92	
4-Chloro-3-methyl phenol #	6.46	
2,4,6-Trichlorophenol #	11.00	
Acenaphthene #	10.92	
n-Nitrosodiphenylamine #	3.16	
Pentachlorophenol #	3.94	
Fluoranthene #	4.56	
Di-n-octylphthalate #	0.34	
Benzo(a)pyrene #	5.80	
1,2,4-Trichlorobenzene	6.16	
1,2-Dichlorobenzene	0.94	
1,3-Dichlorobenzene	1.76	
2,4-Dinitrotoluene	8.54	
2,6-Dinitrotoluene	1.92	
2-Chloronaphthalene	8.94	
2-Methylnaphthalene	1.04	
2-Nitroaniline	2.14	
3-Nitroaniline	6.30	
3,3-Dichlorobenzidine	3.04	
4-Bromophenyl phenyl ether	16.14	
4-Chloroaniline	10.18	
4-Chlorophenyl phenyl ether	8.96	
4-Nitroaniline	27.56	*
Acenaphthylene	1.94	
Anthracene	4.84	
Benz(a)anthracene	4.62	
Benzo(b)fluoranthene	2.40	
Benzo(g,h,i)perylene	1.68	
Benzyl alcohol	3.34	
Bis (2-chloroethoxy)methane	3.66	
Bis (2-chloroethyl) ether	5.74	
Bis (2-chloroisopropyl) ether	5.04	
Bis (2-ethylhexyl) phthalate	5.18	
Butyl Benzyl Phthalate	7.60	
Chrysene	3.82	
Di-n-butylphthalate	0.76	
Dibenz (a,h) Anthracene	6.94	
Dibenzofuran	7.96	
Diethyl phthalate	7.98	
Dimethyl phthalate	5.68	
Fluorene	1.16	
Hexachlorobenzene	6.80	
Hexachloroethane	0.82	
Indeno(1,2,3-cd)pyrene	4.52	
Isophorone	0.90	
n-Nitrosodimethylamine	39.00	*
Naphthalene	2.34	
Nitrobenzene	2.68	
Phenanthrene	6.76	
Pyrene	4.40	
2,4,5-Trichlorophenol	5.40	
2,4-Dimethylphenol	0.06	
2-Chlorophenol	2.74	
2-Methylphenol	2.24	
4,6-Dinitro-2-methylphenol	15.66	
4-Methylphenol	5.34	
Benzoic acid	11.96	

Comments:

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062499\3M17471.D Vial: 3
Acq On : 24 Jun 1999 11:05 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Thu Jun 24 14:58:45 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	65	0.00
2		Pyridine	50.000	48.516	3.0	58	0.00
3		n-Nitrosodimethylamine	50.000	57.389	-14.8	68	0.00
4	S	2-Fluorophenol	50.000	48.992	2.0	60	0.02
5		Aniline	50.000	57.472	-14.9	68	0.00
6	S	Phenol-d5	50.000	51.586	-3.2	62	0.02
7	C	Phenol	50.000	49.895	0.2	60	0.00
8		bis(2-Chloroethyl)ether	50.000	53.233	-6.5	64	0.00
9		2-Chlorophenol	50.000	54.033	-8.1	66	0.00
10		1,3-Dichlorobenzene	50.000	54.106	-8.2	66	0.00
11	C	1,4-Dichlorobenzene	50.000	54.870	-9.7	66	0.00
12		Benzyl Alcohol	50.000	51.062	-2.1	62	0.00
13	C	1,2-Dichlorobenzene	50.000	55.788	-11.6	67	0.00
14		2-Methylphenol	50.000	54.267	-8.5	65	0.00
15		bis(2-Chloroisopropyl)ether	50.000	60.417	-20.8	71	0.00
16		4-Methylphenol	50.000	53.799	-7.6	65	0.00
17	P	n-Nitrosodipropylamine	50.000	54.757	-9.5	67	0.00
18		Hexachloroethane	50.000	56.197	-12.4	68	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	71	0.00
20	S	Nitrobenzene-d5	50.000	50.307	-0.6	66	0.00
21		Nitrobenzene	50.000	49.634	0.7	65	0.00
22		Isophorone	50.000	50.430	-0.9	66	0.00
23	C	2-Nitrophenol	50.000	56.201	-12.4	69	0.00
24		2,4-Dimethylphenol	50.000	56.188	-12.4	72	0.00
25		bis(2-Chloroethoxy)methane	50.000	52.070	-4.1	67	0.00
26		Benzoic Acid	50.000	48.746	2.5	73	0.00
27	C	2,4-Dichlorophenol	50.000	50.802	-1.6	67	0.00
28		1,2,4-Trichlorobenzene	50.000	49.352	1.3	65	0.00
29		Naphthalene	50.000	53.896	-7.8	72	0.00
30		4-Chloroaniline	50.000	53.510	-7.0	70	0.00
31	C	Hexachlorobutadiene	50.000	48.860	2.3	64	0.00
32	C	4-Chloro-3-Methylphenol	50.000	50.644	-1.3	66	0.00
33		2-Methylnaphthalene	50.000	52.673	-5.3	71	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	74	0.00
35	P	Hexachlorocyclopentadiene	50.000	48.469	3.1	64	0.00
36	C	2,4,6-Trichlorophenol	50.000	48.314	3.4	66	0.00
37		2,4,5-Trichlorophenol	50.000	49.602	0.8	66	0.00
38	S	2-Fluorobiphenyl	50.000	50.184	-0.4	70	0.00
39		2-Chloronaphthalene	50.000	52.506	-5.0	71	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062499\3M17471.D
Acq On : 24 Jun 1999 11:05
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Thu Jun 24 14:58:45 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	51.051	-2.1	69	0.00
41		Dimethylphthalate	50.000	50.519	-1.0	69	0.00
42		Acenaphthylene	50.000	54.528	-9.1	73	0.00
43		2,6-Dinitrotoluene	50.000	49.680	0.6	69	0.00
44		3-Nitroaniline	50.000	50.162	-0.3	69	0.00
45	C	Acenaphthene	50.000	55.953	-11.9	74	0.00
46	P	2,4-Dinitrophenol	50.000	54.139	-8.3	74	0.00
47	P	4-Nitrophenol	50.000	53.956	-7.9	72	0.00
48		Dibenzofuran	50.000	53.217	-6.4	71	0.00
49		2,4-Dinitrotoluene	50.000	49.171	1.7	67	0.00
50		Diethylphthalate	50.000	53.742	-7.5	74	0.00
51		Fluorene	50.000	52.254	-4.5	74	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	50.487	-1.0	68	0.00
		4-Nitroaniline	50.000	61.215	-22.4	81	0.00
		1,2-Diphenylhydrazine	50.000	53.881	-7.8	74	0.00
55	S	2,4,6-Tribromophenol	50.000	45.877	8.2	64	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	72	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	51.753	-3.5	68	0.00
58	C	n-Nitrosodiphenylamine	50.000	52.308	-4.6	72	0.00
59		4-Bromophenyl Phenyl Ether	50.000	50.853	-1.7	67	0.00
60		Hexachlorobenzene	50.000	50.707	-1.4	66	0.00
61	C	Pentachlorophenol	50.000	48.771	2.5	66	0.00
62		Phenanthrene	50.000	53.728	-7.5	74	0.00
63		Anthracene	50.000	56.919	-13.8	74	0.00
64		Carbazole	50.000	47.303	5.4	67	0.00
65		Di-n-Butyl Phthalate	50.000	63.112	-26.2	80	0.00
66	C	Fluoranthene	50.000	57.131	-14.3	77	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	78	0.00
68		Benzidine	50.000	178.097	-256.2#	311	0.00
69		Pyrene	50.000	54.156	-8.3	75	0.00
70	S	p-Terphenyl-d14	50.000	53.701	-7.4	75	0.00
71		Butyl Benzyl Phthalate	50.000	56.627	-13.3	79	0.00
72		Benzo[a]anthracene	50.000	52.240	-4.5	74	0.02
73		3,3'-Dichlorobenzidine	50.000	47.429	5.1	71	0.00
74		Chrysene	50.000	53.088	-6.2	74	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	56.135	-12.3	79	0.00
76	I	Perylene-d12	40.000	40.000	0.0	74	0.02
77	C	Di-n-Octyl Phthalate	50.000	57.967	-15.9	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062499\3M17471.D Vial: 3
Acq On : 24 Jun 1999 11:05 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Thu Jun 24 14:58:45 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	49.992	0.0	69	0.00
79		Benzo[k]fluoranthene	50.000	55.005	-10.0	73	0.00
80	C	Benzo[a]pyrene	50.000	53.217	-6.4	72	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	50.971	-1.9	70	0.00
82		Dibenz[ah]anthracene	50.000	51.519	-3.0	70	0.00
83		Benzo[ghi]perylene	50.000	49.420	1.2	69	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D Vial: 22
Acq On : 28 Jun 1999 22:49 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.02
2		Pyridine	50.000	49.408	1.2	102	0.03
3		n-Nitrosodimethylamine	50.000	50.184	-0.4	102	0.03
4	S	2-Fluorophenol	50.000	52.591	-5.2	111	0.04
5		Aniline	50.000	54.938	-9.9	113	0.03
6	S	Phenol-d5	50.000	52.702	-5.4	109	0.04
7	C	Phenol	50.000	52.947	-5.9	109	0.04
8		bis(2-Chloroethyl)ether	50.000	54.326	-8.7	113	0.02
9		2-Chlorophenol	50.000	53.086	-6.2	112	0.03
10		1,3-Dichlorobenzene	50.000	53.173	-6.3	112	0.02
11	C	1,4-Dichlorobenzene	50.000	53.189	-6.4	111	0.02
12		Benzyl Alcohol	50.000	53.056	-6.1	110	0.03
13	C	1,2-Dichlorobenzene	50.000	54.199	-8.4	113	0.02
		2-Methylphenol	50.000	52.978	-6.0	110	0.02
		bis(2-Chloroisopropyl)ether	50.000	52.503	-5.0	109	0.02
16		4-Methylphenol	50.000	53.328	-6.7	110	0.03
17	P	n-Nitrosodipropylamine	50.000	54.306	-8.6	114	0.02
18		Hexachloroethane	50.000	52.542	-5.1	110	0.02
19	I	Naphthalene-d8	40.000	40.000	0.0	111	0.02
20	S	Nitrobenzene-d5	50.000	54.437	-8.9	111	0.02
21		Nitrobenzene	50.000	53.674	-7.3	110	0.02
22		Isophorone	50.000	54.289	-8.6	111	0.02
23	C	2-Nitrophenol	50.000	54.710	-9.4	106	0.02
24		2,4-Dimethylphenol	50.000	54.701	-9.4	109	0.02
25		bis(2-Chloroethoxy)methane	50.000	53.689	-7.4	107	0.02
26		Benzoic Acid	50.000	53.553	-7.1	126	0.03
27	C	2,4-Dichlorophenol	50.000	53.831	-7.7	111	0.02
28		1,2,4-Trichlorobenzene	50.000	53.185	-6.4	110	0.02
29		Naphthalene	50.000	51.713	-3.4	108	0.02
30		4-Chloroaniline	50.000	54.422	-8.8	112	0.00
31	C	Hexachlorobutadiene	50.000	55.078	-10.2	113	0.02
32	C	4-Chloro-3-Methylphenol	50.000	54.784	-9.6	112	0.02
33		2-Methylnaphthalene	50.000	51.871	-3.7	109	0.02
34	I	Acenaphthene-d10	40.000	40.000	0.0	116	0.02
35	P	Hexachlorocyclopentadiene	50.000	48.557	2.9	101	0.02
36	C	2,4,6-Trichlorophenol	50.000	51.639	-3.3	111	0.02
37		2,4,5-Trichlorophenol	50.000	51.563	-3.1	108	0.03
38	S	2-Fluorobiphenyl	50.000	49.560	0.9	109	0.00
39		2-Chloronaphthalene	50.000	52.111	-4.2	111	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D
Acq On : 28 Jun 1999 22:49
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 22
Operator: CLK
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	52.024	-4.0	110	0.02
41		Dimethylphthalate	50.000	51.872	-3.7	112	0.00
42		Acenaphthylene	50.000	52.730	-5.5	110	0.00
43		2,6-Dinitrotoluene	50.000	52.219	-4.4	113	0.02
44		3-Nitroaniline	50.000	51.847	-3.7	112	0.02
45	C	Acenaphthene	50.000	52.552	-5.1	109	0.02
46	P	2,4-Dinitrophenol	50.000	51.674	-3.3	111	0.02
47	P	4-Nitrophenol	50.000	50.871	-1.7	107	0.02
48		Dibenzofuran	50.000	52.396	-4.8	110	0.02
49		2,4-Dinitrotoluene	50.000	52.166	-4.3	111	0.02
50		Diethylphthalate	50.000	51.985	-4.0	112	0.02
51		Fluorene	50.000	49.457	1.1	111	0.02
52		4-Chlorophenyl Phenyl Ether	50.000	52.827	-5.7	112	0.02
53		4-Nitroaniline	50.000	54.421	-8.8	117	0.03
54		1,2-Diphenylhydrazine	50.000	50.003	-0.0	108	0.02
55	S	2,4,6-Tribromophenol	50.000	52.369	-4.7	114	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	111	0.02
57		4,6-Dinitro-2-Methylphenol	50.000	54.225	-8.5	108	0.02
58	C	n-Nitrosodiphenylamine	50.000	54.066	-8.1	113	0.02
59		4-Bromophenyl Phenyl Ether	50.000	55.652	-11.3	113	0.02
60		Hexachlorobenzene	50.000	56.607	-13.2	113	0.00
61	C	Pentachlorophenol	50.000	55.324	-10.6	114	0.00
62		Phenanthrene	50.000	54.176	-8.4	113	0.02
63		Anthracene	50.000	50.156	-0.3	103	0.02
64		Carbazole	50.000	44.995	10.0	98	0.00
65		Di-n-Butyl Phthalate	50.000	49.141	1.7	102	0.00
66	C	Fluoranthene	50.000	53.236	-6.5	110	0.02
67	I	Chrysene-d12	40.000	40.000	0.0	119	0.03
68		Benzidine	50.000	145.145	-190.3#	388	0.02
69		Pyrene	50.000	49.784	0.4	108	0.02
70	S	p-Terphenyl-d14	50.000	49.100	1.8	108	0.02
71		Butyl Benzyl Phthalate	50.000	47.986	4.0	106	0.02
72		Benzo[a]anthracene	50.000	51.686	-3.4	112	0.03
73		3,3'-Dichlorobenzidine	50.000	56.418	-12.8	130	0.03
74		Chrysene	50.000	51.917	-3.8	110	0.03
75		bis(2-Ethylhexyl)phthalate	50.000	46.699	6.6	104	0.02
76	I	Perylene-d12	40.000	40.000	0.0	115	0.05
77	C	Di-n-Octyl Phthalate	50.000	51.394	-2.8	103	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D Vial: 22
Acq On : 28 Jun 1999 22:49 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.734	-5.5	112	0.04
79		Benzo[k]fluoranthene	50.000	51.420	-2.8	106	0.04
80	C	Benzo[a]pyrene	50.000	51.808	-3.6	109	0.04
81		Indeno[1,2,3-cd]pyrene	50.000	52.750	-5.5	112	0.06
82		Dibenz[ah]anthracene	50.000	53.185	-6.4	112	0.07
83		Benzo[ghi]perylene	50.000	51.561	-3.1	111	0.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG59867-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	2.0	5.0	
1,2-Dichlorobenzene	1.7	5.0	
1,3-Dichlorobenzene	1.8	5.0	
1,4-Dichlorobenzene	1.7	5.0	
2,4,5-Trichlorophenol	1.8	25	
2,4,6-Trichlorophenol	1.7	5.0	
2,4-Dichlorophenol	1.9	5.0	
2,4-Dimethylphenol	2.0	5.0	
2,4-Dinitrophenol	9.0	25	
2,4-Dinitrotoluene	1.3	5.0	
2,6-Dinitrotoluene	1.5	5.0	
2-Chloronaphthalene	1.8	5.0	
2-Chlorophenol	1.5	5.0	
2-Methylnaphthalene	1.8	5.0	
2-Methylphenol	1.7	5.0	
2-Nitroaniline	1.4	25	
2-Nitrophenol	1.5	5.0	
3,3'-Dichlorobenzidine	4.3	10	
3-Nitroaniline	1.6	25	
4,6-Dinitro-2-methylphenol	1.1	25	
4-Bromophenyl-phenylether	1.4	5.0	
4-Chloro-3-methylphenol	1.7	10	
4-Chloroaniline	1.9	10	
4-Chlorophenyl-phenyl ether	1.7	5.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG59867-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
4-Methylphenol	1.5	5.0	
4-Nitroaniline	1.8	25	
Acenaphthene	1.5	5.0	
Acenaphthylene	1.6	5.0	
Anthracene	1.2	5.0	
Benzo(a)anthracene	1.7	5.0	
Benzo(a)pyrene	1.8	5.0	
Benzo(b)fluoranthene	1.7	5.0	
Benzo(g,h,i)Perylene	3.2	5.0	
Benzoic acid	4.7	25	
Benzyl alcohol	1.5	10	
Bis(2-Chloroethoxy)Methane	1.5	5.0	
Bis(2-Chloroethyl)ether	1.4	5.0	
Butylbenzylphthalate	2.1	5.0	
Chrysene	2.5	5.0	
Di-N-Butylphthalate	1.8	5.0	
Di-n-octylphthalate	1.9	5.0	
Dibenzo(a,h)Anthracene	3.5	5.0	
Dibenzofuran	1.7	5.0	
Diethylphthalate	1.4	5.0	
Dimethylphthalate	1.7	5.0	
Fluoranthene	1.7	5.0	
Fluorene	1.7	5.0	
Hexachlorobenzene	1.7	5.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG59867-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	2.4	5.0	
Hexachlorocyclopentadiene	1.2	5.0	
Hexachloroethane	2.0	5.0	
Indeno(1,2,3-cd)pyrene	2.2	5.0	
Isophorone	1.7	5.0	
N-Nitroso-di-n-propylamine	1.5	5.0	
N-Nitrosodiphenylamine	1.4	5.0	
Naphthalene	2.8	5.0	
Nitrobenzene	1.5	5.0	
Pentachlorophenol	1.7	25	
Phenanthrene	1.3	5.0	
Phenol	2.2	5.0	
Pyrene	1.6	5.0	
bis(2-Chloroisopropyl)ether	1.5	5.0	
bis(2-Ethylhexyl)phthalate	2.1	5.0	
p-Nitrophenol	1.6	25	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59867-03

Units: ug/L

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	50	25.2	50.4	44 - 142	
1,2-Dichlorobenzene	50	27.6	55.2	42 - 155	
1,3-Dichlorobenzene	50	26.3	52.6	36 - 125	
1,4-Dichlorobenzene	50	26.5	53	30 - 125	
2,4,5-Trichlorophenol	50	47.7	95.4	25 - 175	
2,4,6-Trichlorophenol	50	43.3	86.6	39 - 128	
2,4-Dichlorophenol	50	34.3	68.6	46 - 125	
2,4-Dimethylphenol	50	38.3	76.6	45 - 139	
2,4-Dinitrophenol	50	57.1	114.2	30 - 151	
2,4-Dinitrotoluene	50	52.1	104.2	39 - 139	
2,6-Dinitrotoluene	50	45.1	90.2	51 - 125	
2-Chloronaphthalene	50	32.0	64	60 - 125	
2-Chlorophenol	50	31.3	62.6	41 - 125	
2-Methylnaphthalene	50	30.0	60	41 - 125	
2-Methylphenol	50	30.5	61	25 - 125	
2-Nitroaniline	50	52.7	105.4	50 - 125	
2-Nitrophenol	50	30.1	60.2	44 - 125	
3,3'-Dichlorobenzidine	50	82.2	164.4	29 - 175	
3-Nitroaniline	50	47.9	95.8	51 - 125	
4,6-Dinitro-2-methylphenol	50	56.2	112.4	26 - 134	
4-Bromophenyl-phenylether	50	48.7	97.4	53 - 127	
4-Chloro-3-methylphenol	50	50.5	101	44 - 125	
4-Chloroaniline	50	36.3	72.6	45 - 136	
4-Chlorophenyl-phenyl ether	50	44.3	88.6	51 - 132	

Comments:

507 370

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59867-03

Units: ug/L

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	50	29.5	59	33 - 125	
4-Nitroaniline	50	98.4	196.8	40 - 143	*
Acenaphthene	50	42.5	85	49 - 125	
Acenaphthylene	50	38.5	77	47 - 125	
Anthracene	50	52.9	105.8	45 - 165	
Benzo(a)anthracene	50	59.9	119.8	51 - 133	
Benzo(a)pyrene	50	58.4	116.8	41 - 125	
Benzo(b)fluoranthene	50	57.9	115.8	37 - 125	
Benzo(g,h,i)Perylene	50	56.4	112.8	34 - 149	
Benzoic acid	50	8.19	16.4	25 - 162	*
Benzyl alcohol	50	29.0	58	35 - 125	
Bis(2-Chloroethoxy)Methane	50	31.4	62.8	49 - 125	
Bis(2-Chloroethyl)ether	50	31.2	62.4	44 - 125	
Butylbenzylphthalate	50	61.3	122.6	26 - 125	
Chrysene	50	61.8	123.6	55 - 133	
Di-N-Butylphthalate	50	65.0	130	34 - 126	*
Di-n-octylphthalate	50	64.1	128.2	38 - 127	*
Dibenzo(a,h)Anthracene	50	61.5	123	50 - 125	
Dibenzofuran	50	41.8	83.6	52 - 125	
Diethylphthalate	50	57.2	114.4	37 - 125	
Dimethylphthalate	50	45.6	91.2	25 - 175	
Fluoranthene	50	63.7	127.4	47 - 125	*
Fluorene	50	46.7	93.4	48 - 139	
Hexachlorobenzene	50	51.7	103.4	46 - 133	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59867-03

Units: ug/L

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	50	25.0	50	25 - 125	
Hexachlorocyclopentadiene	50	22.0	44	41 - 125	
Hexachloroethane	50	28.3	56.6	25 - 153	
Indeno(1,2,3-cd)pyrene	50	58.8	117.6	27 - 160	
Isophorone	50	33.0	66	26 - 175	
N-Nitroso-di-n-propylamine	50	36.5	73	37 - 125	
N-Nitrosodiphenylamine	50	54.2	108.4	27 - 125	
Naphthalene	50	28.1	56.2	50 - 125	
Nitrobenzene	50	29.6	59.2	46 - 133	
Pentachlorophenol	50	55.0	110	28 - 136	
Phenanthrene	50	68.0	136	54 - 125	*
Phenol	50	15.1	30.2	25 - 125	
Pyrene	50	60.6	121.2	47 - 136	
bis(2-Chloroisopropyl)ether	50	37.0	74	36 - 166	
bis(2-Ethylhexyl)phthalate	50	62.8	125.6	33 - 129	
p-Nitrophenol	50	28.6	57.2	25 - 131	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C AAB#: WG60037

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0100BE	19-Jun-99	21-Jun-99	23-Jun-99	14	4	29-Jun-99	40	6	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/94 Column ID DB5 Analyst mdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP5973 Data Subdirectory CX2304 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17437	50 PPM DFTPP	1	DFTPP	✓	540-26
38	50 PPM BNA STD		BN1	✓	541-46-4
39	4 PPM BNA STD			✓	-1
40	20 PPM BNA STD			✓	-3
41	80 PPM BNA STD			✓	-5
42	100 PPM BNA STD			✓	-6
43	120 PPM BNA STD			✓	-7
44	50 PPM ALT SOURCE BNA STD			✓	
45	LW659653-02 SOIL BLK 6/18 VII7PI71			✓	
46	LW659653-03 SOIL LCS 6/18 VII7PIII			✓	
47	L9966437-01 SOIL			✓	
48	1 -03 SOIL			✓	
49	50 PPM DFTPP		DFTPP	✓	

105

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
MT = Missed Tune, beyound method tuning requirements

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 374

Date 6/23/98 Instrument ID [illegible] Data Subdirectory 062394 Column ID [illegible]

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17450	50 PPM BNA STD	1	[illegible]	✓	
51	L9906437-02 SOIL			✓	
52	-04 SOIL			✓	
53	-05 SOIL			✓	
54	-06 SOIL			✓	
55	-07 SOIL			✓	
56	-08 SOIL			✓	
57	-09 SOIL			✓	
58	-10 SOIL			✓	
59	W659653-04 L9906437-11 MS SOIL			✓	
60	W659653-05 L9906437-12 MSD SOIL			✓	
61	L9906437-13 SOIL			✓	
62	-14 SOIL			✓	
63	-15 SOIL			RR	155.6 low
64	-16 SOIL				
65	-17 SOIL				
66	-18 SOIL				
67	-19 SOIL			✓	
68	-20 SOIL			RR	155.6 low

Reviewed By: [illegible] 6/24/98

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

KEMRON ENVIRON TAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/24/99 Column ID DB-5 Analyst mdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HPM53 Data Subdirectory 062499 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17469	50 PPM DFTPP	1	DFTPP	✓	540-26
70	50 PPM BNA STD		BNA	✓	~~540~~ 541-41-4
71	50 PPM BNA STD			✓	mdc/ss/lav
72	WG59867-02 SEP BLK 6/23 V118P19			✓	
73	WG59867-03 SEP LCS 6/23 V118P19			✓	
74	L9906437-15 REMIX SOIL			✓	
75	-16 REMIX SOIL			✓	
76	-17 REMIX SOIL			✓	
77	-18 REMIX SOIL			✓	
78	-20 REMIX SOIL			✓	
79	WG59855-01 TCLP BLK 6/22			✓	
80	L9906345-04 TCLP			✓	SSI law
81	L9906345-05 TCLP			✓	

Comments:

Reviewed By: ECZ 6/25/99

√ = Compliant Analysis, Reanalysis complete
RR = Rerun

SMI - Sample matrix interference
MT = Missed Tune, beyond method tuning requirements

507 375

RR = Rerun MT = Missed Tune, beyound method tuning requirements

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 062499 Instrument ID HP5973 Data Subdirectory 062499 Column ID DB5-

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17482	L9906338-01	1	BN	✓	ss/lw
83	-02			✓	1
84	-03			✓	
85	WG59403-04 L9906338-03 MS			✓	
86	WG59403-05 L9906338-03 MSD			✓	
87	L9906338-04			RR	
88	L9906338-05			RR	
		vdc 6/25/99			

Reviewed By: EC 6/25/99

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards
SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

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507 376

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/28/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP5973 Data Subdirectory 062899 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes _____ No _____ Additional Discussion on Page _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17523	50 PPM DFTPP	1X	DFTPP	✓	SV4210
29	50 PPM BNA STD		BNA	✓	SV4604
30	W660022-02 SOIL BLK 6/25 V118P69			✓	
31	W660022-03 SOIL LCS 6/25 V118P69			✓	
32	L9906565-01 SOIL			✓	
33	-02			✓	
34	-03			✓	
35	-04			✓	
36	-05			✓	
37	-06			✓	
38	L9906569-01			✓	SS2low
39	-02			✓	
40	-03			✓	

Comments:

Reviewed By: _____

RR - Rerun

MT - Missed Time, beyound method holding requirements

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date _____ Instrument ID _____ Data Subdirectory _____ Column ID _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17541	LW659867-04 L9906509-03 MS	1x	B.U/A	√	SS2,4/low
42	LW659867-05 L9906509-03 MSD			√	↓
43	L9906509-04			√	SS2 low
44	-05			√	SS2,4/low
45	-06			√	↓
46	-07			√	
47	-08			√	SS4/low
48	50 PPM DFTPP		DFTPP	√	SV42-10
49	50 PPM B.U/A STD		B/N/A	√	SV41-16-01
50	L9906512-01 SOIL			√	
51	L9906512-02 SOIL			√	
52	L9906512-05			√	SS2 low
53	L9906513-03			√	↓
54	L9906478-09 SOIL			√	
55	-10			√	
56	-11			√	
57	L9906566-01 SOIL			√	
58	L9906509-13 SOIL			√	
59	-10			√	
60	-11			√	
61	-12			√	
62	LW660022-04, L9906509-13 SOIL MS			√	
63	LW660022-05 L9906509-14 SOIL MSD			√	
64	L9906509-15 SOIL			√	

Reviewed By: _____

Comments:

1 √ = Compliant Analysis. Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI Sample matrix interference
MT Missed Time, beyound method holding requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

507 378

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 U 8270C
Instrument ID HPMS3 Data Subdirectory 062899 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 7565	L9906509-16 SOIL	1	BNA	J	
66	-17			J	
67	-19			J	
68	W659457-02 SEP BLK 6/24 V118747			J	
69	L9906528-02			J	
		CLK			
		6/24/99			

Comments:

Reviewed By

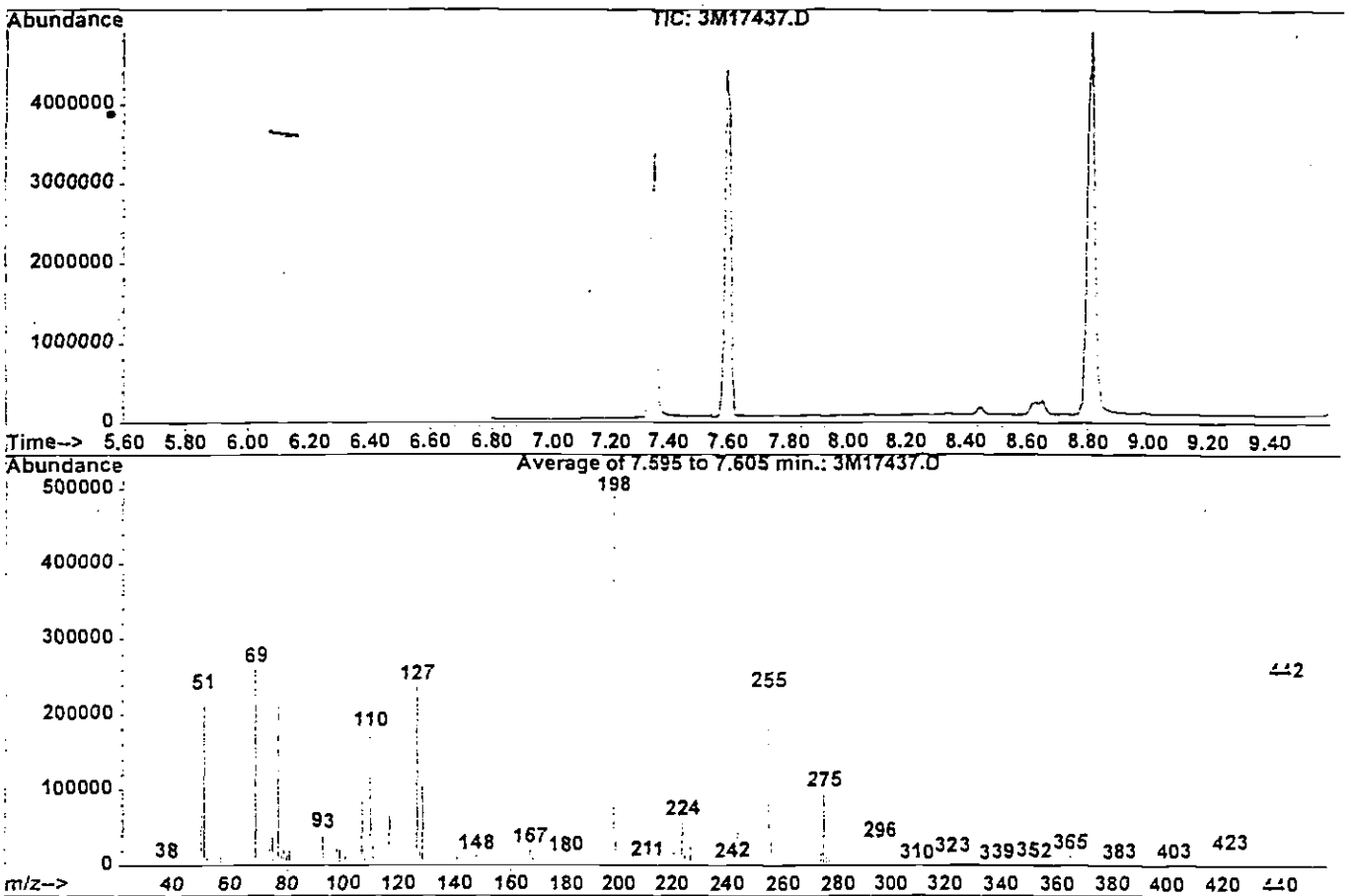
111

507 379

507 380

Data File : C:\HPCHEM\1\DATA\062399\3M17437.D
Acq On : 23 Jun 1999 10:52
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

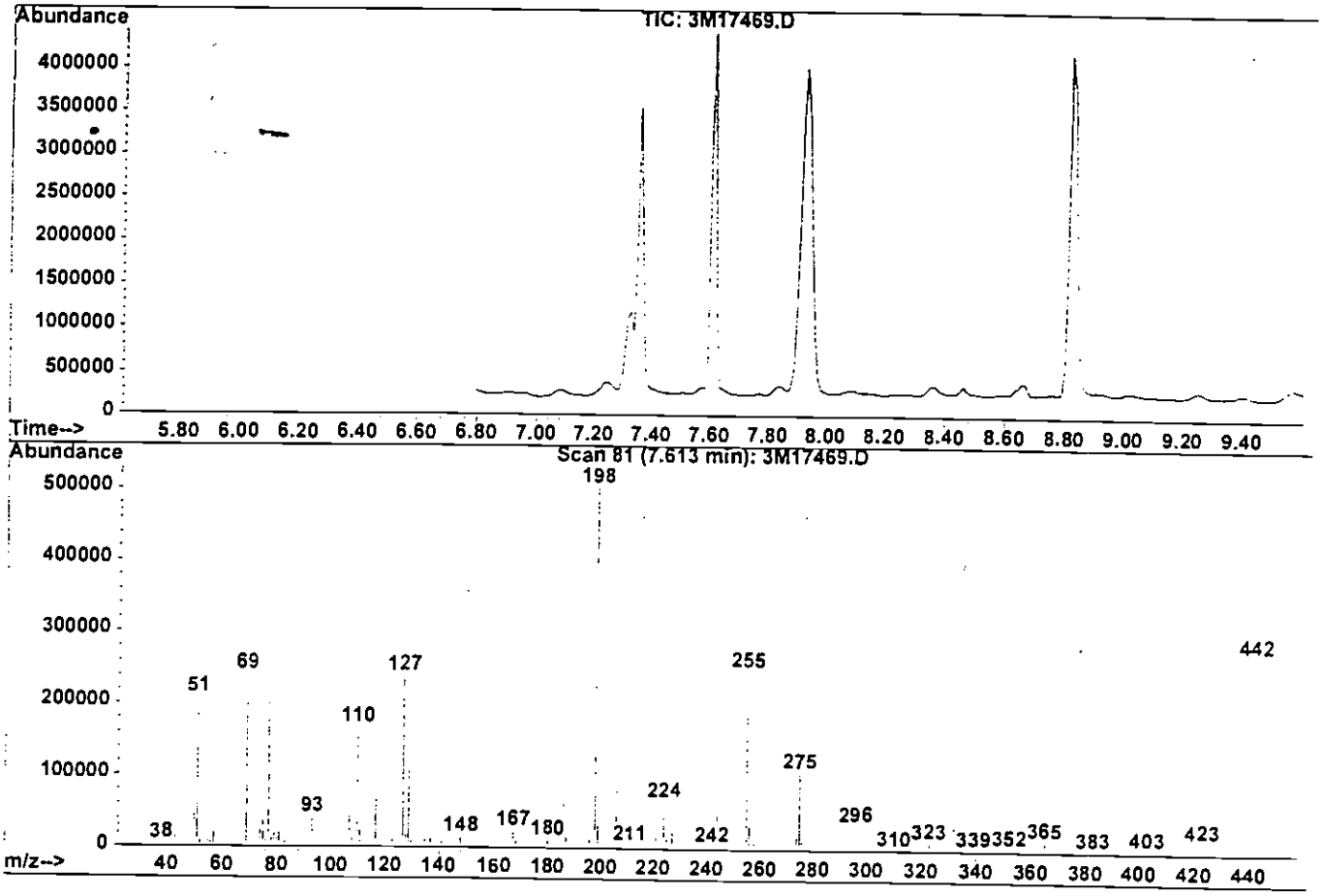


Spectrum Information: Average of 7.595 to 7.605 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	227072	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.2	261920	PASS
70	69	0.00	2	0.6	1502	PASS
127	198	40	60	48.4	238208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	492192	PASS
199	198	5	9	6.8	33280	PASS
275	198	10	30	19.5	96160	PASS
365	198	1	100	2.8	13820	PASS
441	443	0.01	100	77.6	36568	PASS
442	198	40	100	49.5	243612	PASS
443	442	17	23	19.4	47148	PASS

Data File : C:\HPCHEM\1\DATA\062499\3M17469.D
Acq On : 24 Jun 1999 10:06
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00



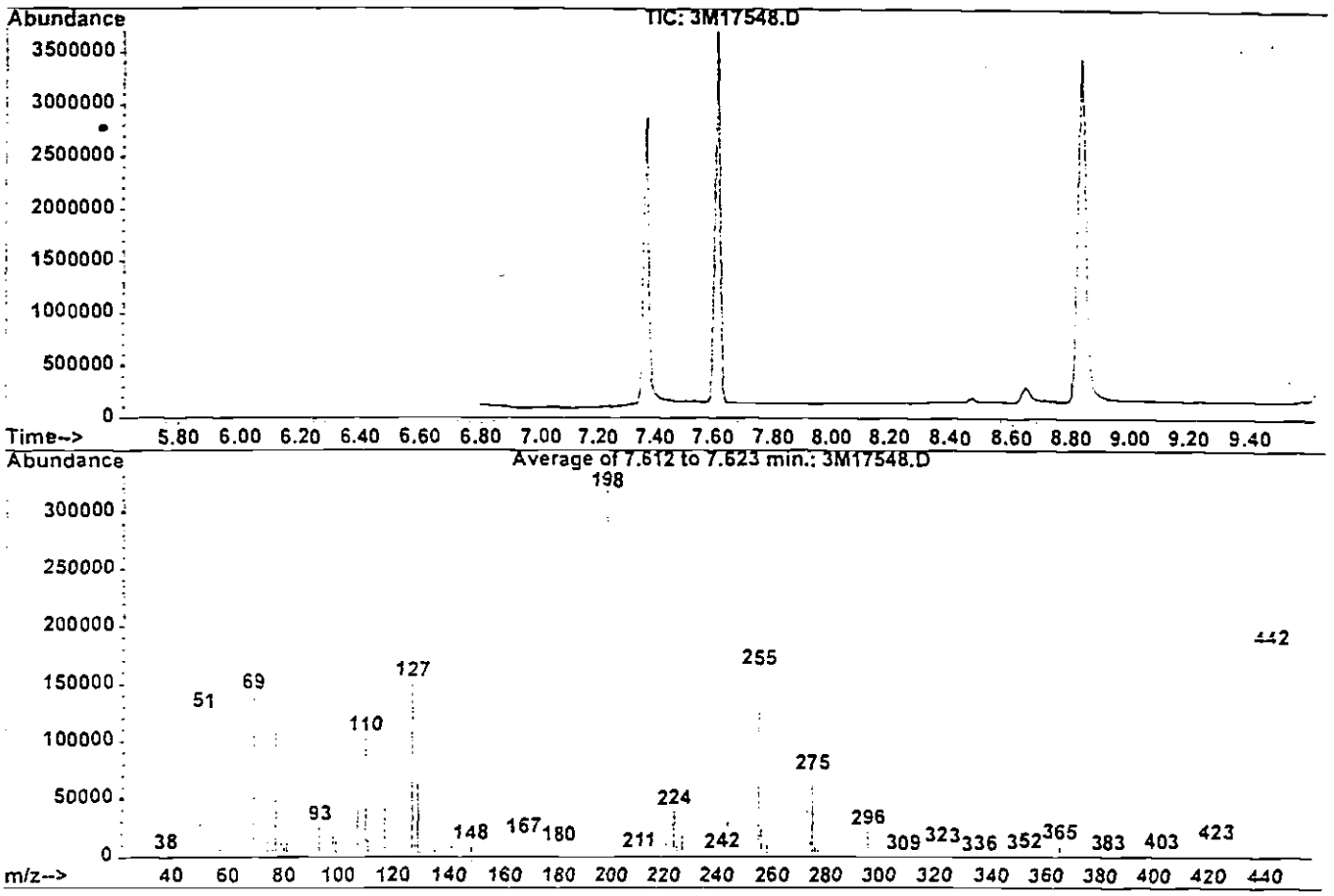
Spectrum Information: Scan 81

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	206848	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.4	239424	PASS
70	69	0.00	2	1.1	2632	PASS
127	198	40	60	47.1	237888	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	505216	PASS
199	198	5	9	6.7	33616	PASS
275	198	10	30	21.1	106656	PASS
365	198	1	100	2.8	14331	PASS
441	443	0.01	100	79.4	41000	PASS
442	198	40	100	54.2	273600	PASS
443	442	17	23	18.9	51656	PASS

DFTPP

Data File : C:\HPCHEM\1\DATA\062899\3M17548.D
Acq On : 28 Jun 1999 22:28
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 21
Operator: CLK
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.612 to 7.623 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	124300	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.2	140848	PASS
70	69	0.00	2	0.8	1110	PASS
127	198	40	60	47.4	150984	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	318528	PASS
199	198	5	9	6.8	21675	PASS
275	198	10	30	22.0	69992	PASS
365	198	1	100	3.1	9969	PASS
441	443	0.01	100	33.6	11616	PASS
442	198	40	100	56.6	180352	PASS
443	442	17	23	19.2	34576	PASS

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : **8270C** AAB # : **WG60163**

Lab Name : **Kemron Environmental Services** Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB** Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SUN0303BA	L9906512-01
S13SUN0303BC	L9906512-02

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe Name: **Dennis S. Tepe**

Date: **13-JUL-99** Title: **Laboratory Manager**

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)		Pyridine	0.854	0.741	0.842	0.721	0.737	0.758	0.775	7.40
3)		n-Nitrosodimethylam	0.419	0.401	0.446	0.386	0.391	0.386	0.405	5.90
4)	S	2-Fluorophenol	1.839	1.748	1.878	1.702	1.725	1.699	1.765	4.26
5)		Aniline	2.114	1.747	1.848	1.536	1.456	1.421	1.687	15.88
6)	S	Phenol-d5	1.983	1.856	1.990	1.732	1.731	1.712	1.834	7.03
7)	C	Phenol	1.798	1.650	1.748	1.511	1.491	1.475	1.612	8.69
8)		bis(2-Chloroethyl)e	1.471	1.330	1.390	1.189	1.233	1.150	1.294	9.60
9)		2-Chlorophenol	1.645	1.512	1.567	1.388	1.364	1.356	1.472	8.20
10)		1,3-Dichlorobenzene	1.650	1.529	1.547	1.364	1.331	1.296	1.453	9.76
11)	C	1,4-Dichlorobenzene	1.717	1.551	1.580	1.371	1.332	1.262	1.469	11.86
12)		Benzyl Alcohol	1.041	1.013	1.091	0.975	0.977	0.968	1.011	4.77
13)	C	1,2-Dichlorobenzene	1.610	1.482	1.496	1.304	1.250	1.188	1.388	11.88
14)		2-Methylphenol	1.277	1.198	1.244	1.079	1.075	1.051	1.154	8.46
15)		bis(2-Chloroisoprop	1.727	1.536	1.522	1.244	1.190	1.136	1.392	16.94
16)		4-Methylphenol	1.865	1.738	1.832	1.596	1.582	1.560	1.695	7.94
17)	P	n-Nitrosodipropylam	0.679	0.621	0.642	0.555	0.555	0.546	0.600	9.25
18)		Hexachloroethane	0.835	0.778	0.793	0.697	0.678	0.660	0.740	9.6
19)	I	Naphthalene-d8	ISTD							
20)	S	Nitrobenzene-d5	0.449	0.410	0.434	0.379	0.371	0.365	0.401	8.77
21)		Nitrobenzene	0.356	0.317	0.331	0.288	0.280	0.275	0.308	10.49
22)		Isophorone	0.685	0.618	0.641	0.555	0.539	0.527	0.594	10.68
23)	C	2-Nitrophenol	0.241	0.238	0.255	0.213	0.199	0.189	0.223	11.72
24)		2,4-Dimethylphenol	0.358	0.329	0.350	0.306	0.280	0.275	0.316	11.10
25)		bis(2-Chloroethoxy)	0.455	0.422	0.440	0.369	0.355	0.347	0.398	11.75
26)		Benzoic Acid		0.142	0.199	0.203	0.213	0.216	0.195	15.73
27)	C	2,4-Dichlorophenol	0.318	0.302	0.310	0.279	0.266	0.261	0.289	8.24
28)		1,2,4-Trichlorobenz	0.338	0.309	0.317	0.282	0.267	0.258	0.295	10.57
29)		Naphthalene	1.172	1.076	1.083	0.912	0.844	0.799	0.981	15.30
30)		4-Chloroaniline	0.601	0.566	0.554	0.486	0.457	0.428	0.515	13.25
31)	C	Hexachlorobutadiene	0.187	0.174	0.181	0.163	0.153	0.148	0.168	9.34
32)	C	4-Chloro-3-Methylph	0.392	0.373	0.387	0.342	0.331	0.315	0.357	8.88
33)		2-Methylnaphthalene	0.677	0.631	0.616	0.516	0.480	0.443	0.560	16.75
34)	I	Acenaphthene-d10	ISTD							
35)	P	Hexachlorocyclopent	0.321	0.372	0.429	0.393	0.399	0.378	0.382	9.45
36)	C	2,4,6-Trichlorophen	0.415	0.417	0.444	0.402	0.410	0.381	0.412	4.98
37)		2,4,5-Trichlorophen	0.468	0.445	0.489	0.425	0.410	0.396	0.439	8.04
38)	S	2-Fluorobiphenyl	1.545	1.416	1.462	1.218	1.124	1.070	1.306	14.95
39)		2-Chloronaphthalene	1.371	1.255	1.288	1.107	1.070	0.992	1.181	12.36
40)		2-Nitroaniline	0.355	0.337	0.369	0.321	0.316	0.312	0.335	6.86
41)		Dimethylphthalate	1.589	1.475	1.528	1.367	1.304	1.255	1.420	9.2

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
42)		Acenaphthylene	2.222	2.080	2.150	1.832	1.711	1.600	1.933	13.13
43)		2,6-Dinitrotoluene	0.374	0.377	0.407	0.379	0.380	0.360	0.379	4.09
44)		3-Nitroaniline	0.551	0.557	0.595	0.544	0.539	0.522	0.551	4.47
45)	C	Acenaphthene	1.266	1.206	1.255	1.068	0.985	0.901	1.114	13.64
46)	P	2,4-Dinitrophenol		0.177	0.235	0.233	0.229	0.215	0.218	11.01
47)	P	4-Nitrophenol		0.248	0.281	0.256	0.249	0.238	0.254	6.41
48)		Dibenzofuran	1.842	1.739	1.780	1.516	1.435	1.355	1.611	12.55
49)		2,4-Dinitrotoluene	0.479	0.508	0.550	0.504	0.490	0.487	0.503	5.01
50)		Diethylphthalate	1.640	1.538	1.538	1.350	1.271	1.214	1.425	11.97
51)		Fluorene	1.476	1.324	1.310	1.073	1.007	0.896	1.181	18.82
52)		4-Chlorophenyl Phen	0.643	0.610	0.632	0.559	0.533	0.491	0.578	10.45
53)		4-Nitroaniline	0.497	0.428	0.366	0.278	0.250	0.229	0.341	31.36
54)		1,2-Diphenylhydrazi	1.420	1.279	1.315	1.140	1.096	1.091	1.224	11.02
55)	S	2,4,6-Tribromopheno	0.230	0.231	0.261	0.253	0.246	0.246	0.244	4.98
56)	I	Phenanthrene-d10	----------ISTD----------							
57)		4,6-Dinitro-2-Methy		0.198	0.216	0.194	0.186	0.178	0.195	7.39
	C	n-Nitrosodiphenylam	0.634	0.572	0.572	0.468	0.434	0.381	0.510	19.11
		4-Bromophenyl Pheny	0.210	0.205	0.212	0.187	0.179	0.170	0.194	9.18
60)		Hexachlorobenzene	0.281	0.271	0.280	0.244	0.221	0.215	0.252	11.72
61)	C	Pentachlorophenol		0.152	0.173	0.164	0.160	0.159	0.161	4.92
62)		Phenanthrene	1.351	1.226	1.162	0.946	0.904	0.805	1.066	19.89
63)		Anthracene	1.248	1.172	1.177	0.933	0.829	0.793	1.025	19.27
64)		Carbazole	1.305	1.149	1.075	0.888	0.808	0.743	0.995	21.84
65)		Di-n-Butyl Phthalat	1.909	1.662	1.562	1.234	1.053	1.006	1.404	25.81
66)	C	Fluoranthene	1.289	1.215	1.158	1.004	0.961	0.876	1.084	14.84
67)	I	Chrysene-d12	----------ISTD----------							
68)		Benzidine		0.115	0.045	0.030	0.035	0.026	0.050	73.67
69)		Pyrene	1.508	1.392	1.483	1.140	1.066	1.005	1.266	17.50
70)	S	p-Terphenyl-d14	1.073	1.007	1.086	0.840	0.776	0.719	0.917	17.31
71)		Butyl Benzyl Phthal	0.983	0.906	0.943	0.745	0.705	0.670	0.825	16.27
72)		Benzo[a]anthracene	1.280	1.194	1.298	1.128	1.109	1.075	1.181	7.85
73)		3,3'-Dichlorobenzid	0.482	0.379	0.316	0.291	0.306	0.321	0.349	20.48
74)		Chrysene	1.179	1.137	1.241	1.065	1.026	0.993	1.107	8.61
75)		bis(2-Ethylhexyl)ph	1.367	1.235	1.275	1.013	0.962	0.917	1.128	16.61
76)	I	Perylene-d12	----------ISTD----------							
77)	C	Di-n-Octyl Phthalat	2.269	2.127	2.309	1.890	1.793	1.750	2.023	12.08
78)		Benzo[b]fluoranthen	1.457	1.270	1.466	1.342	1.324	1.314	1.362	5.91
79)		Benzo[k]fluoranthen	1.333	1.248	1.315	1.113	1.053	1.019	1.180	11.56
80)	C	Benzo[a]pyrene	1.204	1.179	1.293	1.154	1.139	1.123	1.182	5.19
81)		Indeno[1,2,3-cd]pyr	1.453	1.446	1.609	1.458	1.477	1.482	1.487	4.10
		Dibenz[ah]anthracen	1.145	1.167	1.308	1.179	1.187	1.188	1.195	4.80

(#) = Out of Range

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

	Compound	4	20	50	80	100	120	Avg	%RSD
83)	Benzo[ghi]perylene	1.276	1.275	1.427	1.329	1.363	1.384	1.342	4.53

(#) = Out of Range

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG60163
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS3
Date of Initial Calibration: 23-Jun-99
2nd Source ID: ALT HPMS3 23-JUN-1999

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	2.32	
Hexachlorocyclopentadiene *	7.74	
2,4-Dinitrophenol *	36.70	*
4-Nitrophenol *	6.76	
Phenol #	0.70	
1,4-Dichlorobenzene #	1.68	
2-Nitrophenol #	6.04	
2,4-Dichlorophenol #	6.38	
Hexachlorobutadiene #	7.92	
4-Chloro-3-methyl phenol #	6.46	
2,4,6-Trichlorophenol #	11.00	
Acenaphthene #	10.92	
n-Nitrosodiphenylamine #	3.16	
Pentachlorophenol #	3.94	
Fluoranthene #	4.56	
Di-n-octylphthalate #	0.34	
Benzo(a)pyrene #	5.80	
1,2,4-Trichlorobenzene	6.16	
1,2-Dichlorobenzene	0.94	
1,3-Dichlorobenzene	1.76	
2,4-Dinitrotoluene	8.54	
2,6-Dinitrotoluene	1.92	
2-Chloronaphthalene	6.94	
2-Methylnaphthalene	1.04	
2-Nitroaniline	2.14	
3-Nitroaniline	6.30	
3,3-Dichlorobenzidine	3.04	
4-Bromophenyl phenyl ether	16.14	
4-Chloroaniline	10.16	
4-Chlorophenyl phenyl ether	6.96	
4-Nitroaniline	27.56	*
Acenaphthylene	1.94	
Anthracene	4.84	
Benz(a)anthracene	4.62	
Benzo(b)fluoranthene	2.40	
Benzo(g,h,i)perylene	1.68	
Benzyl alcohol	3.34	
Bis (2-chloroethoxy)methane	3.66	
Bis (2-chloroethyl) ether	5.74	
Bis (2-chloroisopropyl) ether	5.04	
Bis (2-ethylhexyl) phthalate	5.16	
Butyl Benzyl Phthalate	7.60	
Chrysene	3.82	
Di-n-butylphthalate	0.76	
Dibenz (a,h) Anthracene	6.94	
Dibenzofuran	7.96	
Diethyl phthalate	7.98	
Dimethyl phthalate	5.68	
Fluorene	1.16	
Hexachlorobenzene	6.80	
Hexachloroethane	0.62	
Indeno(1,2,3-cd)pyrene	4.52	
Isophorone	0.90	
n-Nitrosodimethylamine	39.00	*
Naphthalene	2.34	
Nitrobenzene	2.68	
Phenanthrene	6.76	
Pyrene	4.40	
2,4,5-Trichlorophenol	5.40	
2,4-Dimethylphenol	0.06	
2-Chlorophenol	2.74	
2-Methylphenol	2.24	
4,6-Dinitro-2-methylphenol	15.66	
4-Methylphenol	5.34	
Benzoic acid	11.96	

Comments:

507 388 Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062699\3M17510.D Vial: 2
Acq On : 26 Jun 1999 10:38 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Mon Jun 28 08:26:27 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	78	0.00
2		Pyridine	50.000	53.375	-6.8	77	0.00
3		n-Nitrosodimethylamine	50.000	48.028	3.9	68	0.00
4	S	2-Fluorophenol	50.000	51.999	-4.0	76	0.00
5		Aniline	50.000	57.513	-15.0	82	0.00
6	S	Phenol-d5	50.000	53.441	-6.9	77	0.00
7	C	Phenol	50.000	53.933	-7.9	78	0.00
8		bis(2-Chloroethyl)ether	50.000	56.088	-12.2	81	0.00
9		2-Chlorophenol	50.000	53.063	-6.1	78	0.00
10		1,3-Dichlorobenzene	50.000	52.815	-5.6	77	0.00
11	C	1,4-Dichlorobenzene	50.000	52.893	-5.8	77	0.00
12		Benzyl Alcohol	50.000	54.196	-8.4	78	0.00
13	C	1,2-Dichlorobenzene	50.000	53.164	-6.3	77	0.00
14		2-Methylphenol	50.000	54.366	-8.7	79	0.00
15		bis(2-Chloroisopropyl)ether	50.000	53.790	-7.6	78	0.00
16		4-Methylphenol	50.000	53.790	-7.6	78	0.00
17	P	n-Nitrosodipropylamine	50.000	54.419	-8.8	79	0.00
18		Hexachloroethane	50.000	52.755	-5.5	77	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	79	0.00
20	S	Nitrobenzene-d5	50.000	54.290	-8.6	79	0.00
21		Nitrobenzene	50.000	54.283	-8.6	79	0.00
22		Isophorone	50.000	54.716	-9.4	80	0.00
23	C	2-Nitrophenol	50.000	56.825	-13.7	78	0.00
24		2,4-Dimethylphenol	50.000	55.174	-10.3	78	0.00
25		bis(2-Chloroethoxy)methane	50.000	55.995	-12.0	80	0.00
26		Benzoic Acid	50.000	38.499	23.0	64	0.00
27	C	2,4-Dichlorophenol	50.000	52.677	-5.4	77	0.00
28		1,2,4-Trichlorobenzene	50.000	53.235	-6.5	78	0.00
29		Naphthalene	50.000	51.634	-3.3	77	0.00
30		4-Chloroaniline	50.000	52.000	-4.0	76	0.00
31	C	Hexachlorobutadiene	50.000	54.252	-8.5	79	0.00
32	C	4-Chloro-3-Methylphenol	50.000	54.340	-8.7	79	0.00
33		2-Methylnaphthalene	50.000	52.329	-4.7	78	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	82	0.00
35	P	Hexachlorocyclopentadiene	50.000	46.731	6.5	68	0.00
36	C	2,4,6-Trichlorophenol	50.000	51.147	-2.3	78	0.00
37		2,4,5-Trichlorophenol	50.000	51.066	-2.1	75	0.00
38	S	2-Fluorobiphenyl	50.000	50.430	-0.9	78	0.00
39		2-Chloronaphthalene	50.000	52.993	-6.0	80	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062699\3M17510.D Vial: 2
Acq On : 26 Jun 1999 10:38 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Mon Jun 28 08:26:27 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	51.385	-2.8	77	0.00
41		Dimethylphthalate	50.000	50.654	-1.3	77	0.00
42		Acenaphthylene	50.000	52.236	-4.5	77	0.00
43		2,6-Dinitrotoluene	50.000	51.744	-3.5	79	0.00
44		3-Nitroaniline	50.000	51.646	-3.3	78	0.00
45	C	Acenaphthene	50.000	52.491	-5.0	76	0.00
46	P	2,4-Dinitrophenol	50.000	42.345	15.3	64	0.00
47	P	4-Nitrophenol	50.000	49.304	1.4	73	0.00
48		Dibenzofuran	50.000	52.595	-5.2	78	0.00
49		2,4-Dinitrotoluene	50.000	50.693	-1.4	76	0.00
50		Diethylphthalate	50.000	51.635	-3.3	78	0.00
51		Fluorene	50.000	50.277	-0.6	79	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	52.522	-5.0	79	0.00
53		4-Nitroaniline	50.000	56.284	-12.6	84	0.00
[redacted]		1,2-Diphenylhydrazine	50.000	51.181	-2.4	78	0.00
55	S	2,4,6-Tribromophenol	50.000	49.581	0.8	76	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	77	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	53.352	-6.7	74	0.00
58	C	n-Nitrosodiphenylamine	50.000	53.787	-7.6	78	0.00
59		4-Bromophenyl Phenyl Ether	50.000	54.768	-9.5	77	0.00
60		Hexachlorobenzene	50.000	55.357	-10.7	77	0.00
61	C	Pentachlorophenol	50.000	49.645	0.7	71	0.00
62		Phenanthrene	50.000	54.821	-9.6	80	0.00
63		Anthracene	50.000	52.342	-4.7	74	0.00
64		Carbazole	50.000	48.883	2.2	73	0.00
65		Di-n-Butyl Phthalate	50.000	50.527	-1.1	73	0.00
66	C	Fluoranthene	50.000	51.287	-2.6	74	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	76	0.00
68		Benzidine	50.000	137.968	-175.9#	235	0.00
69		Pyrene	50.000	52.807	-5.6	72	0.00
70	S	p-Terphenyl-d14	50.000	53.480	-7.0	73	0.00
71		Butyl Benzyl Phthalate	50.000	51.481	-3.0	71	0.00
72		Benzo[a]anthracene	50.000	51.914	-3.8	71	0.00
73		3,3'-Dichlorobenzidine	50.000	51.235	-2.5	75	0.00
74		Chrysene	50.000	52.494	-5.0	71	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	51.578	-3.2	72	0.00
[redacted]	I	Perylene-d12	40.000	40.000	0.0	73	0.00
[redacted]	C	Di-n-Octyl Phthalate	50.000	54.242	-8.5	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062699\3M17510.D Vial: 2
Acq On : 26 Jun 1999 10:38 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Mon Jun 28 08:26:27 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	50.471	-0.9	68	0.00
79		Benzo[k]fluoranthene	50.000	51.880	-3.8	68	0.00
80	C	Benzo[a]pyrene	50.000	51.750	-3.5	69	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	52.751	-5.5	71	-0.01
82		Dibenz[ah]anthracene	50.000	52.968	-5.9	71	-0.01
83		Benzo[ghi]perylene	50.000	51.481	-3.0	71	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D Vial: 22
Acq On : 28 Jun 1999 22:49 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.02
2		Pyridine	50.000	49.408	1.2	102	0.03
3		n-Nitrosodimethylamine	50.000	50.184	-0.4	102	0.03
4	S	2-Fluorophenol	50.000	52.591	-5.2	111	0.04
5		Aniline	50.000	54.938	-9.9	113	0.03
6	S	Phenol-d5	50.000	52.702	-5.4	109	0.04
7	C	Phenol	50.000	52.947	-5.9	109	0.04
8		bis(2-Chloroethyl)ether	50.000	54.326	-8.7	113	0.02
9		2-Chlorophenol	50.000	53.086	-6.2	112	0.03
10		1,3-Dichlorobenzene	50.000	53.173	-6.3	112	0.02
11	C	1,4-Dichlorobenzene	50.000	53.189	-6.4	111	0.02
12		Benzyl Alcohol	50.000	53.056	-6.1	110	0.03
13	C	1,2-Dichlorobenzene	50.000	54.199	-8.4	113	0.02
		2-Methylphenol	50.000	52.978	-6.0	110	0.02
		bis(2-Chloroisopropyl)ether	50.000	52.503	-5.0	109	0.02
16		4-Methylphenol	50.000	53.328	-6.7	110	0.03
17	P	n-Nitrosodipropylamine	50.000	54.306	-8.6	114	0.02
18		Hexachloroethane	50.000	52.542	-5.1	110	0.02
19	I	Naphthalene-d8	40.000	40.000	0.0	111	0.02
20	S	Nitrobenzene-d5	50.000	54.437	-8.9	111	0.02
21		Nitrobenzene	50.000	53.674	-7.3	110	0.02
22		Isophorone	50.000	54.289	-8.6	111	0.02
23	C	2-Nitrophenol	50.000	54.710	-9.4	106	0.02
24		2,4-Dimethylphenol	50.000	54.701	-9.4	109	0.02
25		bis(2-Chloroethoxy)methane	50.000	53.689	-7.4	107	0.02
26		Benzoic Acid	50.000	53.553	-7.1	126	0.03
27	C	2,4-Dichlorophenol	50.000	53.831	-7.7	111	0.02
28		1,2,4-Trichlorobenzene	50.000	53.185	-6.4	110	0.02
29		Naphthalene	50.000	51.713	-3.4	108	0.02
30		4-Chloroaniline	50.000	54.422	-8.8	112	0.00
31	C	Hexachlorobutadiene	50.000	55.078	-10.2	113	0.02
32	C	4-Chloro-3-Methylphenol	50.000	54.784	-9.6	112	0.02
33		2-Methylnaphthalene	50.000	51.871	-3.7	109	0.02
34	I	Acenaphthene-d10	40.000	40.000	0.0	116	0.02
35	P	Hexachlorocyclopentadiene	50.000	48.557	2.9	101	0.02
36	C	2,4,6-Trichlorophenol	50.000	51.639	-3.3	111	0.02
37		2,4,5-Trichlorophenol	50.000	51.563	-3.1	108	0.03
38	S	2-Fluorobiphenyl	50.000	49.560	0.9	109	0.00
39		2-Chloronaphthalene	50.000	52.111	-4.2	111	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D Vial: 22
Acq On : 28 Jun 1999 22:49 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	52.024	-4.0	110	0.02
41		Dimethylphthalate	50.000	51.872	-3.7	112	0.00
42		Acenaphthylene	50.000	52.730	-5.5	110	0.00
43		2,6-Dinitrotoluene	50.000	52.219	-4.4	113	0.02
44		3-Nitroaniline	50.000	51.847	-3.7	112	0.02
45	C	Acenaphthene	50.000	52.552	-5.1	109	0.02
46	P	2,4-Dinitrophenol	50.000	51.674	-3.3	111	0.02
47	P	4-Nitrophenol	50.000	50.871	-1.7	107	0.02
48		Dibenzofuran	50.000	52.396	-4.8	110	0.02
49		2,4-Dinitrotoluene	50.000	52.166	-4.3	111	0.02
50		Diethylphthalate	50.000	51.985	-4.0	112	0.02
51		Fluorene	50.000	49.457	1.1	111	0.02
52		4-Chlorophenyl Phenyl Ether	50.000	52.827	-5.7	112	0.02
53		4-Nitroaniline	50.000	54.421	-8.8	117	0.03
54		1,2-Diphenylhydrazine	50.000	50.003	-0.0	108	0.02
55	S	2,4,6-Tribromophenol	50.000	52.369	-4.7	114	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	111	0.02
57		4,6-Dinitro-2-Methylphenol	50.000	54.225	-8.5	108	0.02
58	C	n-Nitrosodiphenylamine	50.000	54.066	-8.1	113	0.02
59		4-Bromophenyl Phenyl Ether	50.000	55.652	-11.3	113	0.02
60		Hexachlorobenzene	50.000	56.607	-13.2	113	0.00
61	C	Pentachlorophenol	50.000	55.324	-10.6	114	0.00
62		Phenanthrene	50.000	54.176	-8.4	113	0.02
63		Anthracene	50.000	50.156	-0.3	103	0.02
64		Carbazole	50.000	44.995	10.0	98	0.00
65		Di-n-Butyl Phthalate	50.000	49.141	1.7	102	0.00
66	C	Fluoranthene	50.000	53.236	-6.5	110	0.02
67	I	Chrysene-d12	40.000	40.000	0.0	119	0.03
68		Benzidine	50.000	145.145	-190.3#	388	0.02
69		Pyrene	50.000	49.784	0.4	108	0.02
70	S	p-Terphenyl-d14	50.000	49.100	1.8	108	0.02
71		Butyl Benzyl Phthalate	50.000	47.986	4.0	106	0.02
72		Benzo[a]anthracene	50.000	51.686	-3.4	112	0.03
73		3,3'-Dichlorobenzidine	50.000	56.418	-12.8	130	0.03
74		Chrysene	50.000	51.917	-3.8	110	0.03
75		bis(2-Ethylhexyl)phthalate	50.000	46.699	6.6	104	0.02
76	I	Perylene-d12	40.000	40.000	0.0	115	0.05
77	C	Di-n-Octyl Phthalate	50.000	51.394	-2.8	103	0.03

(#) = Out of Range

507 393

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D Vial: 22
Acq On : 28 Jun 1999 22:49 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.734	-5.5	112	0.04
79		Benzo[k]fluoranthene	50.000	51.420	-2.8	106	0.04
80	C	Benzo[a]pyrene	50.000	51.808	-3.6	109	0.04
81		Indeno[1,2,3-cd]pyrene	50.000	52.750	-5.5	112	0.06
82		Dibenz[ah]anthracene	50.000	53.185	-6.4	112	0.07
83		Benzo[ghi]perylene	50.000	51.561	-3.1	111	0.08

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG59856-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	0.033	0.70	
1,2-Dichlorobenzene	0.033	0.70	
1,3-Dichlorobenzene	0.032	0.70	
1,4-Dichlorobenzene	0.034	0.70	
2,4,5-Trichlorophenol	0.047	3.3	
2,4,6-Trichlorophenol	0.042	0.30	
2,4-Dichlorophenol	0.041	0.30	
2,4-Dimethylphenol	0.037	0.30	
2,4-Dinitrophenol	0.11	3.3	
2,4-Dinitrotoluene	0.042	0.70	
2,6-Dinitrotoluene	0.04	0.70	
2-Chloronaphthalene	0.04	0.70	
2-Chlorophenol	0.034	0.30	
2-Methylnaphthalene	0.037	0.70	
2-Methylphenol	0.063	0.30	
2-Nitroaniline	0.046	3.3	
2-Nitrophenol	0.032	0.30	
3,3'-Dichlorobenzidine	0.15	1.3	
3-Nitroaniline	0.072	3.3	
4,6-Dinitro-2-methylphenol	0.036	3.3	
4-Bromophenyl-phenylether	0.038	0.70	
4-Chloro-3-methylphenol	0.046	1.3	
4-Chloroaniline	0.053	1.3	
4-Chlorophenyl-phenyl ether	0.044	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG59856-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
4-Methylphenol	0.041	0.30	
4-Nitroaniline	0.04	3.3	
Acenaphthene	0.042	0.70	
Acenaphthylene	0.042	0.70	
Anthracene	0.035	0.70	
Benzo(a)anthracene	0.029	0.70	
Benzo(a)pyrene	0.026	0.70	
Benzo(b)fluoranthene	0.028	0.70	
Benzo(g,h,i)Perylene	0.037	0.70	
Benzoic acid	0.02	1.6	
Benzyl alcohol	0.06	1.3	
Bis(2-Chloroethoxy)Methane	0.047	0.70	
Bis(2-Chloroethyl)ether	0.041	0.70	
Butylbenzylphthalate	0.031	0.70	
Chrysene	0.041	0.70	
Di-N-Butylphthalate	0.031	0.70	
Di-n-octylphthalate	0.031	0.70	
Dibenzo(a,h)Anthracene	0.039	0.70	
Dibenzofuran	0.043	0.70	
Diethylphthalate	0.049	0.70	
Dimethylphthalate	0.046	0.70	
Fluoranthene	0.028	0.70	
Fluorene	0.044	0.70	
Hexachlorobenzene	0.04	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG59856-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	0.037	0.70	
Hexachlorocyclopentadiene	0.087	0.70	
Hexachloroethane	0.033	0.70	
Indeno(1,2,3-cd)pyrene	0.036	0.70	
Isophorone	0.043	0.70	
N-Nitroso-di-n-propylamine	0.035	0.70	
N-Nitrosodiphenylamine	0.048	0.70	
Naphthalene	0.036	0.70	
Nitrobenzene	0.034	0.70	
Pentachlorophenol	0.02	3.3	
Phenanthrene	0.043	0.70	
Phenol	0.032	0.30	
Pyrene	0.03	0.70	
bis(2-Chloroisopropyl)ether	0.041	0.70	
bis(2-Ethylhexyl)phthalate	0.039	0.70	
p-Nitrophenol	0.057	1.6	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.67	1.13	67.7	34 - 152	
1,2-Dichlorobenzene	1.67	1.07	64.1	32 - 135	
1,3-Dichlorobenzene	1.67	1.07	64.1	26 - 135	
1,4-Dichlorobenzene	1.67	1.06	63.5	25 - 135	
2,4,5-Trichlorophenol	1.67	1.25	74.9	25 - 175	
2,4,6-Trichlorophenol	1.67	1.17	70.1	29 - 138	
2,4-Dichlorophenol	1.67	1.16	69.5	36 - 135	
2,4-Dimethylphenol	1.67	1.27	76	35 - 149	
2,4-Dinitrophenol	1.67	1.32	79	25 - 161	
2,4-Dinitrotoluene	1.67	1.39	83.2	29 - 149	
2,6-Dinitrotoluene	1.67	1.28	76.6	41 - 135	
2-Chloronaphthalene	1.67	1.18	70.7	50 - 135	
2-Chlorophenol	1.67	1.06	63.5	31 - 135	
2-Methylnaphthalene	1.67	1.12	67.1	31 - 135	
2-Methylphenol	1.67	1.12	67.1	25 - 135	
2-Nitroaniline	1.67	1.25	74.9	40 - 135	
2-Nitrophenol	1.67	1.07	64.1	34 - 135	
3,3'-Dichlorobenzidine	1.67	1.27	76	25 - 175	
3-Nitroaniline	1.67	1.24	74.3	41 - 135	
4,6-Dinitro-2-methylphenol	1.67	1.49	89.2	25 - 144	
4-Bromophenyl-phenylether	1.67	1.39	83.2	43 - 137	
4-Chloro-3-methylphenol	1.67	1.27	76	34 - 135	
4-Chloroaniline	1.67	1.07	64.1	35 - 146	
4-Chlorophenyl-phenyl ether	1.67	1.29	77.2	41 - 142	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	1.67	1.14	68.3	25 - 135	
4-Nitroaniline	1.67	1.61	96.4	30 - 153	
Acenaphthene	1.67	1.29	77.2	39 - 135	
Acenaphthylene	1.67	1.24	74.3	37 - 135	
Anthracene	1.67	1.38	82.6	35 - 175	
Benzo(a)anthracene	1.67	1.50	89.8	41 - 143	
Benzo(a)pyrene	1.67	1.47	88	31 - 135	
Benzo(b)fluoranthene	1.67	1.37	82	27 - 135	
Benzo(g,h,i)Perylene	1.67	1.45	86.8	25 - 159	
Benzoic acid	1.67	0.622	37.2	25 - 172	
Benzyl alcohol	1.67	1.12	67.1	25 - 135	
Bis(2-Chloroethoxy)Methane	1.67	1.15	68.9	39 - 135	
Bis(2-Chloroethyl)ether	1.67	1.06	63.5	34 - 135	
Butylbenzylphthalate	1.67	1.44	86.2	25 - 135	
Chrysene	1.67	1.52	91	45 - 143	
Di-N-Butylphthalate	1.67	1.45	86.8	25 - 136	
Di-n-octylphthalate	1.67	1.47	88	28 - 137	
Dibenzo(a,h)Anthracene	1.67	1.55	92.8	40 - 135	
Dibenzofuran	1.67	1.26	75.4	42 - 135	
Diethylphthalate	1.67	1.40	83.8	27 - 135	
Dimethylphthalate	1.67	1.31	78.4	25 - 175	
Fluoranthene	1.67	1.52	91	37 - 135	
Fluorene	1.67	1.20	71.9	38 - 149	
Hexachlorobenzene	1.67	1.45	86.8	36 - 143	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	1.67	1.18	70.7	25 - 135	
Hexachlorocyclopentadiene	1.67	0.970	58.1	31 - 135	
Hexachloroethane	1.67	1.10	65.9	25 - 163	
Indeno(1,2,3-cd)pyrene	1.67	1.48	88.6	25 - 170	
Isophorone	1.67	1.24	74.3	25 - 175	
N-Nitroso-di-n-propylamine	1.67	1.13	67.7	27 - 135	
N-Nitrosodiphenylamine	1.67	1.34	80.2	25 - 135	
Naphthalene	1.67	1.05	62.9	40 - 135	
Nitrobenzene	1.67	1.09	65.3	36 - 143	
Pentachlorophenol	1.67	1.40	83.8	38 - 146	
Phenanthrene	1.67	1.35	80.8	44 - 135	
Phenol	1.67	1.05	62.9	25 - 135	
Pyrene	1.67	1.48	88.6	37 - 146	
bis(2-Chloroisopropyl)ether	1.67	1.02	61.1	26 - 175	
bis(2-Ethylhexyl)phthalate	1.67	1.40	83.8	25 - 139	
p-Nitrophenol	1.67	1.37	82	25 - 141	

Comments:

507 400

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C AAB#: WG60163

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0303BA	19-Jun-99	21-Jun-99	23-Jun-99	14	4	28-Jun-99	40	5	
S13SUN0303BC	19-Jun-99	21-Jun-99	23-Jun-99	14	4	29-Jun-99	40	6	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/9

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/94 Column ID DB35 Analyst rdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP5973 Data Subdirectory CX62394 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17437	50 PPM DFTPP	1	DFTPP	✓	540-26
38	50 PPM BNA STD		BNA1	✓	541-46-4
39	4 PPM BNA STD			✓	-1
40	20 PPM BNA STD			✓	-3
41	80 PPM BNA STD			✓	-5
42	100 PPM BNA STD			✓	-6
43	120 PPM BNA STD			✓	-7
44	50 PPM ALT SOURCE BNA STD			✓	
45	W65963-02 SOIL BLK 6/18 VII7PI7I			✓	
46	W65963-03 SOIL LCS 6/18 VII7PIII			✓	
47	L9966-137-01 SOIL			✓	
48	" -03 SOIL			✓	
49	50 PPM DFTPP		DFTPP	✓	

RR = Rerun

MT = Missed Time, beyond method tuning requirements

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

507 402

Date 6/23/99 Instrument ID [illegible] Data Subdirectory 062399 Column ID [illegible]

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17450	50 PPM BNA STD	1	[illegible]	✓	
51	L9906437-02 SOIL			✓	
52	-04 SOIL			✓	
53	-05 SOIL			✓	
54	-06 SOIL			✓	
55	-07 SOIL			✓	
56	-08 SOIL			✓	
57	-09 SOIL			✓	
58	-10 SOIL			✓	
59	W659653-04 L9906437-11 MS SOIL			✓	
60	W659653-05 L9906437-12 MSD SOIL			✓	
61	L9906437-13 SOIL			✓	
62	-14 SOIL			✓	
63	-15 SOIL			RR	155.6 low
64	-16 SOIL				
65	-17 SOIL				
66	-18 SOIL				
67	-19 SOIL			✓	
68	-20 SOIL			RR	155.6 low

Reviewed By: [illegible] 6/24/99

Comments:

√ Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
[illegible] SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time, beyond method tuning requirements
RE = Re-extraction analysis
CC = Contin[illegible]libration failed

142

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/26/94 Column ID DB5 Analyst MPC SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HPMS3 Data Subdirectory 062694 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
Vacuum >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes _____ No _____ Additional Discussion on Page _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17509	50PPM DFTPP	1X	DFTPP	✓	540-26
3m17510	50 PPM BNA STD		BNA	✓	541-46-4
3m17511	W660101-02 SOIL BLK 6/25 V118P83			✓	
3m17512	W660101-03 ~~LCS~~ CCV SOIL LCS 6/25 V118P83			✓	
3m17523	W659856-02 SOIL BLK 6/23 V118P21			✓	
3m17524	W659856-03 SOIL LCS 6/23 V118P21			✓	
3m17513	L9906586-02 SOIL			✓	
14	-07 SOIL			✓	
15	-01 SOIL			✓	
16	-04 SOIL			✓	
17	W660101-04 L9906586-05 MS SOIL			✓	
18	W660101-05 L9906586-06 MSD SOIL			✓	
19	L9906586-08 SOIL	2X		✓	

Comments

Reviewed By [signature] 6/28/94

√ = Compliant Analysis, Reanalysis complete
RR = Rerun

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

507 404

Date 6/26/99 Instrument ID HP MS3 Data Subdirectory 062699 Column ID DB5

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17520	L9906586-09 SOIL	2X	BNA	✓	
3m17521	L9906586-03 SOIL	2X		✓	
3m17522	Bake Out	1X		✓	
3m17525 ~~25~~ 6/28	L9906447-07 SOIL			✓	
3m17526	L9906447-08 SOIL			✓	
3m17527	L9906511-01 SOIL			✓	

Reviewed By: 6/27/99

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/28/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP5973 Data Subdirectory 062899 SOP # MSS02 Rev. # 1 ____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17523	50 PPM DFTPP	1	DFTPP	✓	SV4210
29	50 PPM BNA STD		BNA	✓	SV4-46-01
30	LJ660022-02 SOIL BLK 6/25 V118P69			✓	
31	LJ660022-03 SOIL LCS 6/25 V118P69			✓	
32	L9906565-01 SOIL			✓	
33	-02			✓	
34	-03			✓	
35	-04			✓	
36	-05			✓	
37	-06			✓	
38	L9906569-01			✓	SS2 low
39	-02			✓	
40	-03			✓	

Comments:

Reviewed By

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 406

Date _____ Instrument ID _____ Data Subdirectory _____ Column ID _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
17541	LW659867-04 L9906509-03 MS	1X	BNA	√	ss2,4/low
42	LW659867-05 L9906509-03 MSD			√	↓
43	L9906509-04			√	ss2/low
44	-05			√	ss2,4/low
45	-06			√	↓
46	-07			√	
47	-08		↓	√	ss4/low
48	50 PPM DFTPP		DFTPP	√	SV12-10
49	50 PPM B/N STD		BNA	√	24hr std 541-16-01
50	L9906512-01 SOIL			√	↓
51	L9906512-02 SOIL			√	
52	L9906512-05			√	ss2/low
53	L9906513-03			√	↓
54	L9906478-09 SOIL			√	
55	-10			√	
56	-11			√	
57	L9906566-01 SOIL			√	
58	L9906509-13 SOIL			√	
59	-10			√	
60	-11			√	
61	-12			√	
62	LW660022-04 L9906509-13 SOIL MS			√	
63	LW660022-05 L9906509-14 SOIL MSD			√	
64	L9906509-15 SOIL	↓	↓	√	

Reviewed By: _____

Comments:

√ = Compliant Analysis. Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS = Interference with internal and/or surrogate standards
SMI = Sample matrix interference
MT = Missed Time, beyound method timing requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 J 8270C
Instrument ID HP5973 Data Subdirectory 062899 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

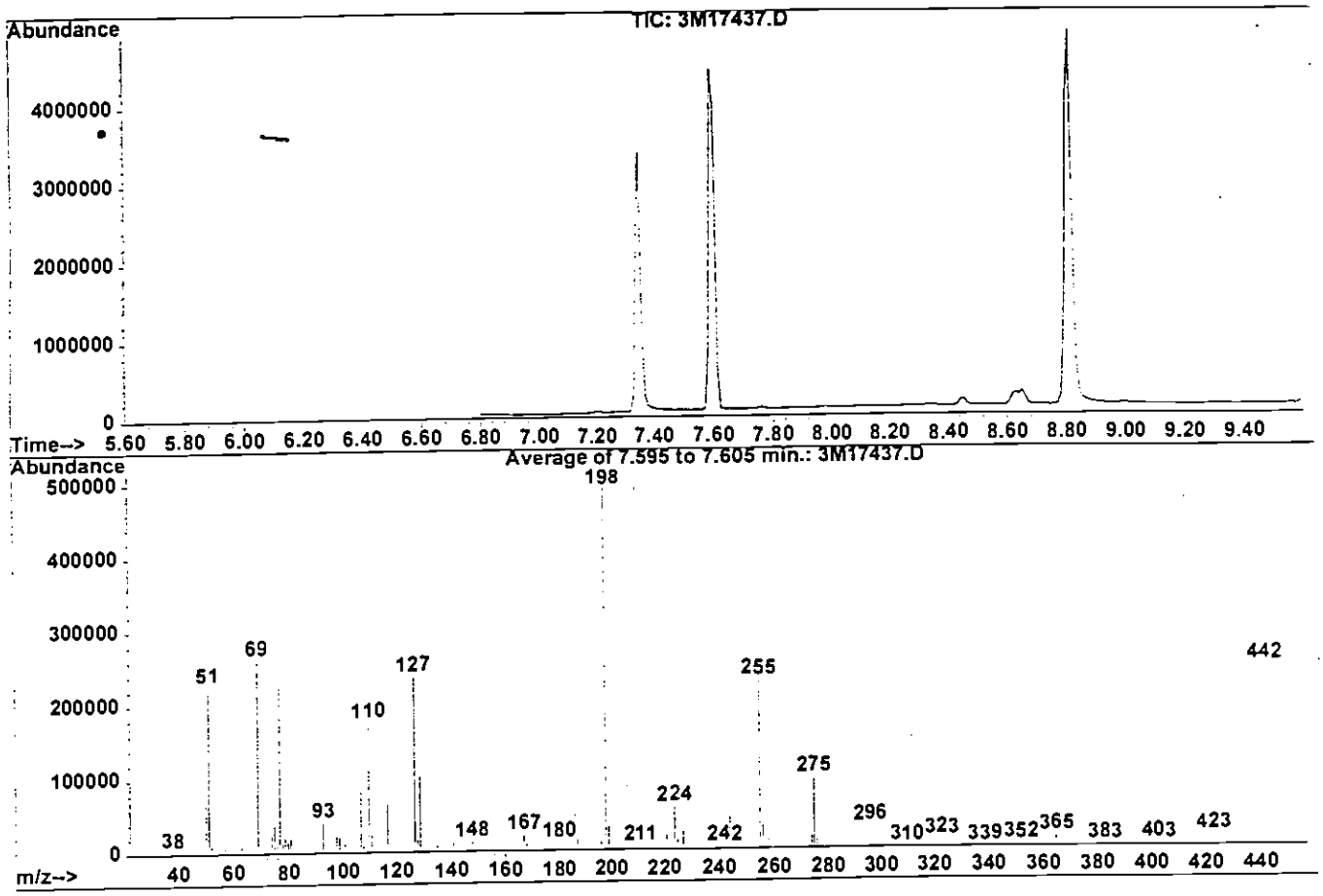
Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17565	L9906509-16 SOIL	1	BNA	J	
66	-17			J	
67	-19			J	
68	LW659457-02 SEP BLK 6/24 V1181247			J	
69	L9906528-02			J	
		CLK			
		6/29/99			

Reviewed By

507 408

Data File : C:\HPCHEM\1\DATA\062399\3M17437.D
Acq On : 23 Jun 1999 10:52
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

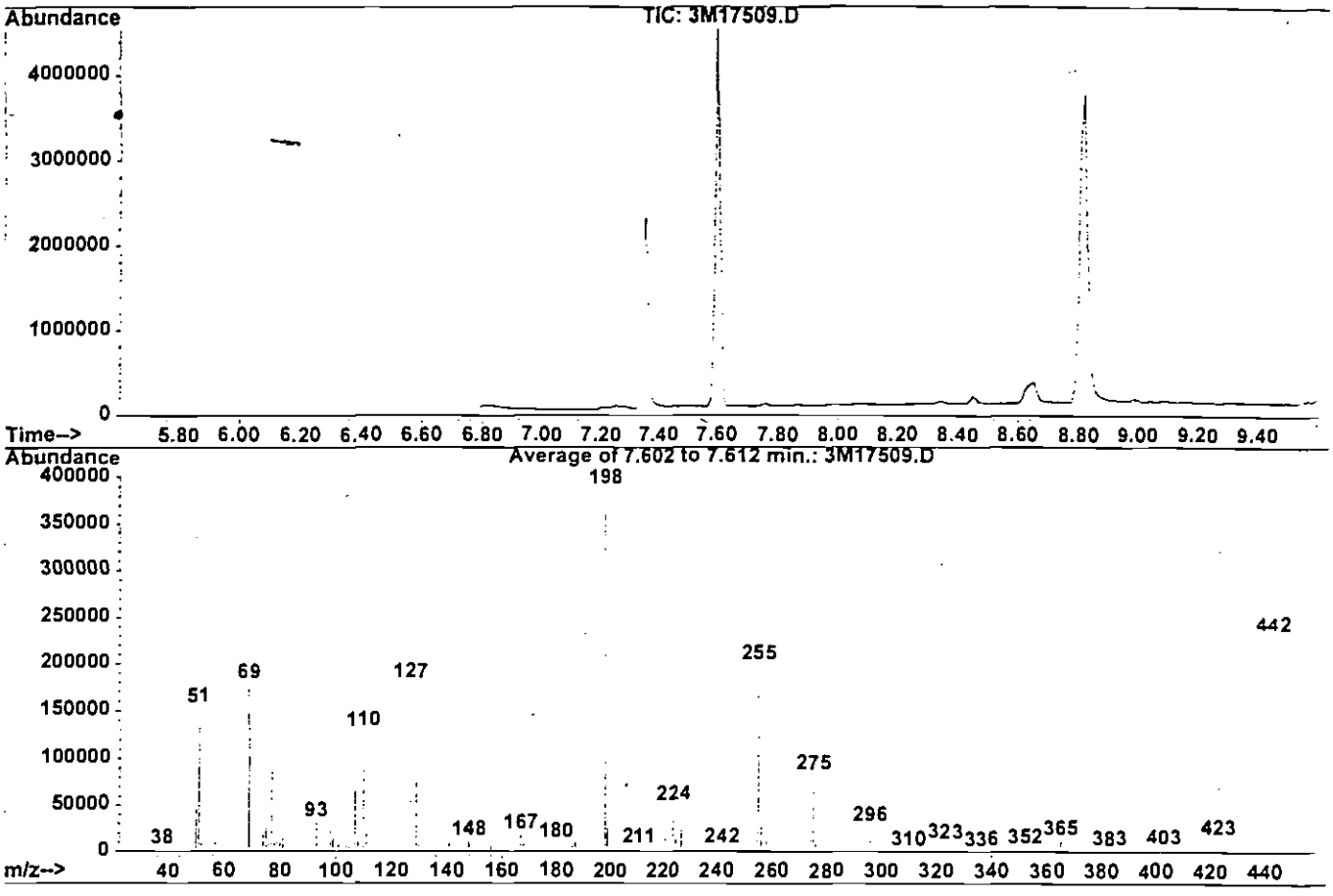


Spectrum Information: Average of 7.595 to 7.605 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	227072	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.2	261920	PASS
70	69	0.00	2	0.6	1502	PASS
127	198	40	60	48.4	238208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	492192	PASS
199	198	5	9	6.8	33280	PASS
275	198	10	30	19.5	96160	PASS
365	198	1	100	2.8	13820	PASS
441	443	0.01	100	77.6	36568	PASS
442	198	40	100	49.5	243612	PASS
443	442	17	23	19.4	47148	PASS

Data File : C:\HPCHEM\1\DATA\062699\3M17509.D
Acq On : 26 Jun 1999 10:18
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00



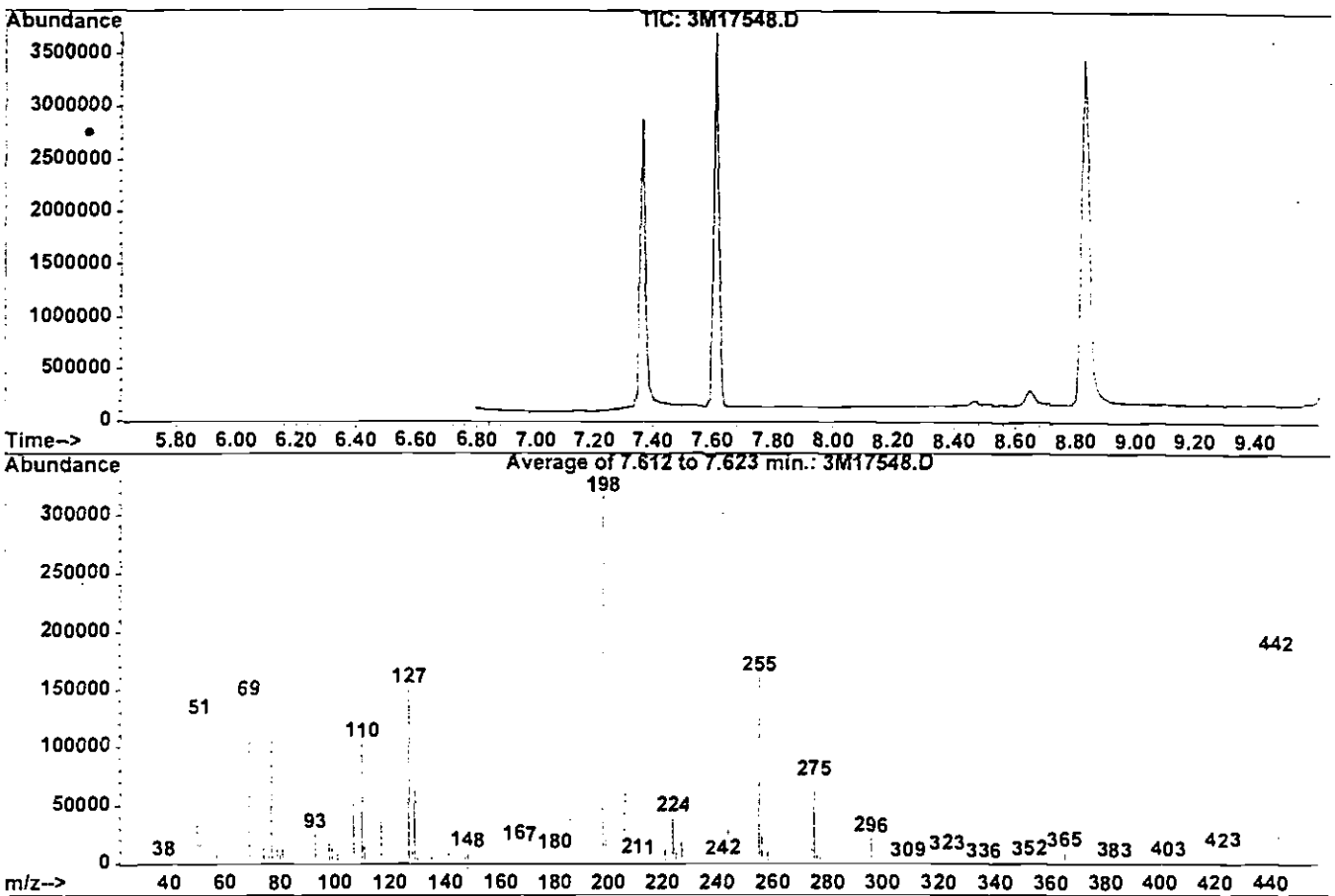
Spectrum Information: Average of 7.602 to 7.612 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.2	152648	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.6	177544	PASS
70	69	0.00	2	0.7	1185	PASS
127	198	40	60	45.8	178468	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	389248	PASS
199	198	5	9	6.6	25665	PASS
275	198	10	30	21.1	82308	PASS
365	198	1	100	3.2	12312	PASS
441	443	0.01	100	80.4	35272	PASS
442	198	40	100	59.1	229920	PASS
443	442	17	23	19.1	43880	PASS

DFTPP

Data File : C:\HPCHEM\1\DATA\062899\3M17548.D
Acq On : 28 Jun 1999 22:28
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 21
Operator: CLK
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.612 to 7.623 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	124300	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.2	140848	PASS
70	69	0.00	2	0.8	1110	PASS
127	198	40	60	47.4	150984	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	318528	PASS
199	198	5	9	6.8	21675	PASS
275	198	10	30	22.0	69992	PASS
365	198	1	100	3.1	9969	PASS
441	443	0.01	100	33.6	11616	PASS
442	198	40	100	56.6	180352	PASS
443	442	17	23	19.2	34576	PASS

Chain of Custody Forms

Work Order C9906512 Client FPM #of Samples 6 Due Date 7/5 Page

Sample #	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
05	8270	EXT	NLC 6/23/99 0855	WALKIN	ELAB	TLB	6/24/99 @ 0800	dumpster	BJG	disposal
1,2	BNA	Ext	CEB 6/23/99 @ 0830	WALKIN	ELAB	BJG	CEB 6/23/99 @ 1128	WALKIN	BJG	Storage
1,2	PCP's	Anal	NLC 6/23/99/1145	walk in	vet	BJG	NLC 6/23/99/1230	Archive	TLB	Archive
4-6	826	AN	MES 6/24/99 0930	V-1	VOA	BJG	6/24/99 @ 1040	archive	TLB	Archive
1-3	8260-SL	anal	CEWS 6/25/99 1600	V-1	VOA	TLB	7/1/99 NB 1600	Archive	TLB	Archive

APPENDIX D
Soil Boring Logs

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BORING LOG

Borehole ID: UN-01
Sheet 1 of 1

			Location: Unnamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1355	Date/Time Total Depth Reached: 4/1/99 1407	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldón	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				SAND: brown, moist, loose, moderately well sorted very fine grained, some clay, 2" of rock fragments at base	SW			Soil samples collected from 2-4ft, 4-6ft, and 6-8ft.
				CLAYEY SAND: yellow brown, moist, medium dense, fine grained, moderately well sorted	SC			
2				SILTY CLAY: dark brown, moist to saturated, soft to firm, high plasticity, rootlets, organic, some $CaCO_3$ nodules and pea gravel (3 to 4 ft), iron staining (4-8 ft)	OH			
3								
4								
5								
6								
7								
8								
9								

BORING LOG

Borehole ID: UN-04
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1445	Date/Time Total Depth Reached: 4/1/99 1450	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldon	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				GRAVELLY SILTY CLAY: brown, moist, firm to stiff, high plasticity, iron staining	CL			OVM (0-4ft) = 0.0 PPM Soil samples collected from 2-4ft, 4-6ft, and 6-8 ft.
2								
3								
4				SILTY CLAY: brown, moist, soft to firm, high plasticity.	OH			OVM (4-8 ft) = 0.0
5				SANDY CLAY: brown, moist to saturated, soft to firm, very fine grained	CL			
6								
7								
8								
9								

BORING LOG

Borehole ID: UN-05
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 4 Ft	
Drilling Equipment:	Drilling Method:	Borehole Diameter: 3 in.	Date/Time Drilling Started: 4/1/99 850	Date/Time Total Depth Reached: 4/1/99 910
Type of Sampling Device: hand auger			Water Level (bgs): First	Final
Sample Hammer: Type	Driving Wt.	Drop	Hydrogeologist: G. Gabaldon	Checked by/Date
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				SILTY CLAY: brown, moist, firm, high plasticity, rootlets, some shell fragments, trace of fine grained sand.	OH			Soil samples collected from 2-4 ft, 4-6 ft, and 6-8 ft.
2				SANDY SILTY CLAY: brown, moist, high plasticity, fine grained				
3				SILTY CLAY WITH SAND: brown, moist, firm. fine grained				
4								
5								

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BORING LOG

Borehole ID: WP02
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1024	Date/Time Total Depth Reached: 4/1/99 1030	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First / Final		
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldon	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
0				SAND: brown, moist, medium dense, roots, well sorted, very fine grained	SW			OVM (0-4ft) = 0.0 ppm
1				SILTY CLAY: dark brown, moist, firm, moderate to high plasticity, iron staining, some pea gravel, some $CaCO_3$ nodules	CH			Soil sampler collected from 2-4ft, 4-6ft, and 6-8ft.
2								
3								
4				SANDY CLAY: gray, saturated, soft to firm very fine grained, iron staining, some light gray mottling; bottom 1' black stained w/ chemical odor	CL			OVM (4-8ft) = 118.6 ppm
5								
6								
7								Chemical odor and black staining (7-8ft)
8								

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BORING LOG

Borehole ID: WP-02(2N)
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: ΔOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 2 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1038	Date/Time Total Depth Reached: 4/1/99 1040	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldón	Checked by/Date	
Location Description (include sketch in field logbook): 2 ft north of WP-02				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				GRAVELLY CLAYEY SAND: reddish brown, moist, medium dense, poorly sorted, pea gravel, fine grained root lets.	SP			OVM (0-2 ft) = 0.0 PPM Soil sample collected from 0-2 ft
2				SILTY CLAY: dark brown, moist, firm, high plasticity, root lets, some pea gravel	CH			

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BORING LOG

Borehole ID: WP-02(4N)
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 2 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1035	Date/Time Total Depth Reached: 4/1/99 1040	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldon	Checked by/Date	
Location Description (include sketch in field logbook): 4ft north of WP-02				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				GRAVELLY CLAYEY SAND: reddish brown, moist, medium dense, poorly sorted, pea gravel, fine grained, rootlets	SP			OVM = 0.0 PPM Soil sample collected from 0-2 ft
2				SILTY CLAY: dark brown, moist, firm, high plasticity, rootlets, some pea gravel	CH			

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BORING LOG

Borehole ID: OWS-01
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/11/99 1105	Date/Time Total Depth Reached: 4/11/99 1120	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs) First	Final	
Sample Hammer Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldon	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
0				SAND WITH CLAY: brown, moist, medium dense, moderately well sorted, bottom 3" is a rock fragment lense	SP			OVM (0-4ft) = 0.0 ppm
1				SILTY CLAY: dark brown to gray, moist to saturated, firm to stiff, some pea gravel (0-4ft), moderate to high plasticity, root fragments, iron staining, some light gray and greenish mottling (4-8 ft), some sand, very-fine grained, slight chemical odor	OH			Soil samples collected from 2-4 ft, 4-6 ft, and 6-8 ft
2								Chemical odor (0.7-8ft)
3								
4								OVM (4-8 ft) = 11.3 PPM
5								
6								
7								
8								

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BORING LOG

Borehole ID: OWS-02
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1257	Date/Time Total Depth Reached: 4/1/99 1307	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First / Final		
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gaboldón	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
0				SAND: brown, moist, very fine grained, loose, well sorted	SW			OVM (0-4 ft) = 0.0 PPM
1				SILTY CLAY: brown and dark brown to gray, moist to saturated, moderate to high plasticity, soft to firm, some light gray and purplish mottling (4-8 ft), iron staining to 3 ft, rootlets (0-4 ft), organic, some very fine sand (4-8 ft), some rock fragments (4-8 ft), some black staining and chemical odor (4-8 ft)	OH			Soil samples collected 2-4 ft, 4-6 ft and 6-8 ft
2								
3								
4								OVM (4-8 ft) = 15.0 PPM Chemical odor (4-8 ft)
5								
6								
7								
8								
9								

BORING LOG

Borehole ID: SD13-MW06
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1342	Date/Time Total Depth Reached: 4/1/99 1350	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gaboldon	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				SILTY CLAY: brown, moist, firm, moderate plasticity trace of very fine sand, roots, some gravel	CL			OVM (0-4ft) = 0.0 ppm
				SANDY CLAY: yellowish and reddish, moist, firm to stiff very fine sand, iron staining, pea gravel, rock fragments bottom 0.3 ft	CL			Soil sample collected from 2-4ft, 4-6ft, and 6-8 ft.
2				SILTY CLAY: brown and gray, moist, firm to stiff, rootlets, iron staining, moderate plasticity, $CaCO_3$ nodules, chemical odor (4-7.5 ft)				
3								
4								OVM (4-8ft) = 356 ppm
5								
6								
7								
8				WEATHERED LIMESTONE: olive, some black staining and chemical odor.				Chemical odor and black staining (7.5-8ft)

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BORING LOG

Borehole ID: SDB-MW07
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1415	Date/Time Total Depth Reached: 4/1/99 1422	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldón	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
1				SILTY CLAY: brown, moist, firm, high plasticity, rootlets, some shell fragments (4-8 ft)	CL			OVM (0-4ft) = 0.0 PPM Soil sample collected from 2-4 ft, 4-6 ft, and 6-8 ft
2								
3								
4								OVM (4-8 ft) = 0.0 ppm
5								
6								
7								
8								

BORING LOG

Borehole ID: SB13SB02
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1312	Date/Time Total Depth Reached: 4/1/99 1319	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldón	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
0				SAND: brown, moist, loose, very fine, well sorted	SW			OVM (0-4 ft) = 0.0 PPM Chemical odor (0.5-8 ft)
1				SILTY CLAY: dark brown to dark gray, moist to saturated (bottom 1 ft), moderate to high plasticity; some light gray mottling some pea gravel, chemical odor, black staining (4-8 ft)	CL			
2								
3								
4								OVM (4-8 ft) = 1.5 PPM black staining (4-8 ft)
5								
6								
7								
8								

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BORING LOG

Borehole ID: SD13-SB03
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 1140	Date/Time Total Depth Reached: 4/1/99 1155	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First	Final	
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldon	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
0				SAND: brown, moist, loose, moderately well sorted	SW			OVM (0-4ft) = 0.0 PPM
1				SILTY CLAY: dark brown, moist, high plasticity, firm, some very fine sand, some rock fragments bottom 3", some black staining and chemical odor	CL			Soil samples collected 2-4 ft, 4-6 ft, and 6-8 ft.
2								
3								
4								OVM (4-8ft) = 68.9 PPM
5								
6				NO RECOVERY				
7								
8								

BORING LOG

Borehole ID: FUS-01
Sheet 1 of 1

			Location: Unamed Stream	
Project Name: Carswell AFB	Project Number: DDPF-98-8125	LTCCODE (IRPIMS)	Site ID: AOC 14	LPRCODE (IRPIMS)
Drilling Company: Best Drilling	Driller: A. Palacios	Ground Elevation	Total Drilled Depth: 8 ft	
Drilling Equipment: Bestprobe / Drilling Method: direct push / Borehole Diameter: 2.5 in.		Date/Time Drilling Started: 4/1/99 913	Date/Time Total Depth Reached: 4/1/99 925	
Type of Sampling Device: 4-ft disposable acetate liners		Water Level (bgs): First / Final		
Sample Hammer: Type / Driving Wt. / Drop		Hydrogeologist: G. Gabaldon	Checked by/Date	
Location Description (include sketch in field logbook)				

Depth	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Lithology	Water Content	Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
				SAND: brown, moist, fine grained, poorly sorted, loose grav	GP			OVM (0-4 ft) = 0.0 PPM
1				GRAVELLY CLAYEY SAND: reddish brown, moist, medium dense, $CaCO_3$ nodules, rootlets	GC			Soil sample collected from 6-8 ft
2								
3				GRAVELLY SILTY CLAY: dark brown, moist, firm "crumbly / friable", shell fragments	CL			
4				ROCK FRAGMENTS (limestone)	GP			OVM (4-8 ft) = 0.0 PPM
5				GRAVELLY SILTY CLAY: dark brown, dry to moist, "crumbly / friable", pea gravel, $CaCO_3$ nodules, iron staining, rootlets.	CL			
6								
7								
8								
9								

APPENDIX E
IDW Manifests

FR&M FANNING, PHILLIPS AND MOLNAR
Engineers & Hydrogeologists

THOMAS P. DORISKI, P.G.
Branch Manager

9311 San Pedro Ave., Suite 700
San Antonio, TX 78216

210-524-7737
Fax: 210-524-7738

LETTER OF TRANSMITTAL

DATE May 5 99	JOB NO. 444-98-23
ATTENTION Alvin Brown	
RE:	
IDW manifests	

TO AFBCA
3711 Fighter Drive
Austin Tx 78719-2557

WE ARE SENDING YOU: ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples
☐ Specifications ☐ Copy of letter ☐ Change of order ☒ Manifests

COPIES	DATE	NO.	DESCRIPTION

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For approval ☐ No exception taken ☐ Revise and resubmit
☐ As requested ☐ Submit specified item ☐ Resubmit _____ copies for approval
☐ For review and comment ☐ Make corrections noted ☐ Return _____ corrected prints
☐ For bids due _____ 19____ ☐ Prints returned after loan to us

REMARKS for your files

COPY TO _____

SIGNED Tom D

507 429

ALLWASTE RECOVERY SYSTEMS
(214) 637-5575
2131 PROGRESSIVE DRIVE
DALLAS TX 75212

INVOICE

IPA490

Sold To: ATTN: TOM DORISKI
PANNING PHILLIPS(1143994)
MOLNAR
9311 SAN PEDRO AVE SUITE 700
SAN ANTONIO TX 78216

Ship To: CARSWELL AIRFORCE BASE
6550 WHITE SETTLEMENT ROAD
FT WORTH TX

Date	Rep ID	Order No.	Ord Date	Ship Via	Terms	Inv No.
04/30/99	005	1135		WO 139651/42553 501	0/10,n/10	05242082

Item/Description	Quantities		Units	Price	Amount
GALS WASTE WATER	Ordered	6.0000			
330 GALS MUNICIPAL SANDTRAP MO1	Shipped	6.0000	GAL	95.0000	570.00
HOURS TRUCK TIME	Ordered	5.0000			
	Shipped	5.0000	HRS	80.0000	400.00
SAMPLING FEE	Ordered	1.0000			
	Shipped	1.0000		2050.0000	2050.00

PLEASE PUT INVOICE # ON ALL CHECKS!!!

Subtotal : 3020.00

Non-Taxable	Taxable	Sales Tax	Freight	Misc	* Invoice Total *
3020.00	.00	.00	.00	.00	3020.00

507 430

№ 42553

ALLWASTE RECOVERY SYSTEMS
P.O. Box 153669
IRVING, TEXAS 75015
Phone: 214-637-5504
FAX: 214-637-5537

LIQUID WASTE TRANSPORTATION TRIP TICKET

GENERATOR INFORMATION
(MUST BE COMPLETED BY GENERATOR)

BUSINESS NAME: Carswell Airforce Base
ADDRESS: 6550 White Settlement, Ft. Worth TELEPHONE: 817-731-8973-B
WASTE REMOVED FROM:
- ____ GREASE TRAP
- ____ GRIT TRAP
- ____ CHEMICAL/PORTABLE TOILET
- ____ SEPTIC TANK
- X MUNICIPAL WASTE WATER
- ____ INDUSTRIAL WASTE WATER

WASTE TANK OR TRAP CAPACITY: 330 GALLONS

I certify that the waste material removed from the above premises contains no hazardous materials.

GENERATOR/REPRESENTATIVE NAME: x MICHAEL R DODYK (PRINT)
4/29/99 (DATE SERVICED) Michael R Dodyk (GENERATOR/REPRESENTATIVE SIGNATURE)

TRANSPORTER INFORMATION
(MUST BE COMPLETED BY TRANSPORTER)

BUSINESS NAME: ALLWASTE RECOVERY SYSTEMS
ADDRESS: 2703 CARTWRIGHT ST. DALLAS, TX TELEPHONE: (214) 637-5504
TDH REGISTRATION NO. #20124 VEHICLE PERMIT - NO: ____
GALLONS REMOVED: 330

I certify that the information provided above is correct, and that only the waste certified for removal by the generator is contained in the servicing vehicle. I am aware that falsification of this trip ticket may result in revocation of my Liquid Waste Transportation Permit, and/or criminal prosecution

DRIVER NAME: X W. Peoples (PRINT)
4/29/99 10:30 am (DATE AND TIME WASTE TRANSPORTED) Willie J Peoples (DRIVER SIGNATURE)

DISPOSAL INFORMATION
(MUST BE COMPLETED BY DISPOSER)

BUSINESS NAME: ALLWASTE RECOVERY SYSTEMS
ADDRESS: 2131 PROGRESSIVE DR., DALLAS, TX TELEPHONE: (214) 637-5575
TDH PERMIT NO. #1421

I certify that I have been authorized by the Texas Department of Health to accept the above specified waste and that I have disposed of the waste in accordance with the requirements outlined in that authorization.

SITE OPERATOR NAME: Mark E Thomas (PRINT)
4/29/99 1200 (DATE AND TIME WASTE RECEIVED) Mark E Thomas (SITE OPERATOR SIGNATURE)

White - City Yellow - Generator Pink - Disposer Goldenrod - Transportor Green - Generator

507 431

ALLWASTE RECOVERY SYSTEMS

P.O. Box 153669
IRVING, TEXAS 75015
Phone: 214-637-5504
FAX: 214-637-5542

Service Order No.
139651

Purchase Order

Customer # 1FA490-01	Job Name CARSWELL AIRFORCE BASE	Date Of Order 4/27/99
Waste Code M01	Location 6550 WHITE SETTLEMENT RD	Salesman
Description 2001 MUNICIPAL SAND TRAP JOINT RESERVE BASE		Frequency 0
Volume 385	FORT WORTH	Phone 817-731-8973:13
Truck #	Mapsco 60X	Contact ELLIOT SMITH

Special Instructions: WP#114977 $95 PER DRUM TRUCK $80.00 PORTAL 3 HR MIN. ON SITE 8:30AM. GO TO MAIN GATE & ASK FOR MIKE DODYCK SAMPLING FEE $2050.00

6 - 55 gl's Drums

Departure N.W.C. 7:30 AM	Service Date: 4-29-99	GL CODE	FOR OFFICE USE: Sampling See $2050.00
Arrival Jobsite 9:00	Trip Ticket # 42553		
Departure Jobsite 10:30 AM	Gallons Removed: 330		Truck Time: 5
Arrival N.W.C. 11:30	Driver: M. P.		Disposal: 6X @ 80.00 = 480.00
Off Loading Completed 12:30	Customer: Michael Dodyk		Sales Tax: @ 95.00 = 570.00
TOTAL TRUCKING TIME			TOTAL:

- Fax Cover Sheet -

Date: 7/23/99

Pages: 3

To: Tom Doriski

Fax Phone: 210-524-7738

From: Thomas Regan

Subject: Allwaste Recovery Systems

507 433

ALLWASTE RECOVERY SYSTEMS

P.O. Box 153669
IRVING, TEXAS 75015
Phone: 214-637-5504
FAX: 214-637-5537

№ 42887

LIQUID WASTE TRANSPORTATION TRIP TICKET

GENERATOR INFORMATION
(MUST BE COMPLETED BY GENERATOR)

BUSINESS NAME: _____
ADDRESS: _____ TELEPHONE: _____
WASTE REMOVED FROM: ___ GREASE TRAP ___ SEPTIC TANK
___ GRIT TRAP ___ MUNICIPAL WASTE WATER
___ CHEMICAL/PORTABLE TOILET ___ INDUSTRIAL WASTE WATER

WASTE TANK OR TRAP CAPACITY: _____ GALLONS

I certify that the waste material removed from the above premises contains no hazardous materials.

GENERATOR/REPRESENTATIVE NAME: X _____
(PRINT)

_____ _____
(DATE SERVICED) (GENERATOR/REPRESENTATIVE SIGNATURE)

TRANSPORTER INFORMATION
(MUST BE COMPLETED BY TRANSPORTER)

BUSINESS NAME: ALLWASTE RECOVERY SYSTEMS
ADDRESS: 2703 CARTWRIGHT ST. DALLAS, TX TELEPHONE: (214) 637-5504
TDH REGISTRATION NO. #20124 VEHICLE PERMIT - NO: _____
GALLONS REMOVED: _____

I certify that the information provided above is correct, and that only the waste certified for removal by the generator is contained in the servicing vehicle. I am aware that falsification of this trip ticket may result in revocation of my Liquid Waste Transportation Permit, and/or criminal prosecution

DRIVER NAME: X _____
(PRINT)

_____ _____
(DATE AND TIME WASTE TRANSPORTED) (DRIVER SIGNATURE)

DISPOSAL INFORMATION
(MUST BE COMPLETED BY DISPOSER)

BUSINESS NAME: ALLWASTE RECOVERY SYSTEMS
ADDRESS: 2131 PROGRESSIVE DR., DALLAS, TX TELEPHONE: (214) 637-5575
TDH PERMIT NO. #1421

I certify that I have been authorized by the Texas Department of Health to accept the above specified waste and that I have disposed of the waste in accordance with the requirements outlined in that authorization.

SITE OPERATOR NAME: _____
(PRINT)

_____ _____
(DATE AND TIME WASTE RECEIVED) (SITE OPERATOR SIGNATURE)

White - City Yellow - Generator Pink - Disposer Goldenrod - Transportor Green - Generator

507 434

ALLWASTE RECOVERY SYSTEMS

P.O. Box 153669
IRVING, TEXAS 75015
Phone: 214-637-5504
FAX: 214-637-5537

№42886

LIQUID WASTE TRANSPORTATION TRIP TICKET

GENERATOR INFORMATION
(MUST BE COMPLETED BY GENERATOR)

BUSINESS NAME: _____
ADDRESS: _____ TELEPHONE: _____

WASTE REMOVED FROM:
_____ GREASE TRAP
_____ GRIT TRAP
_____ CHEMICAL/PORTABLE TOILET
_____ SEPTIC TANK
_____ MUNICIPAL WASTE WATER
_____ INDUSTRIAL WASTE WATER

WASTE TANK OR TRAP CAPACITY: _____ GALLONS

I certify that the waste material removed from the above premises contains no hazardous materials.

GENERATOR/REPRESENTATIVE NAME: X _____ (PRINT)

_____ (DATE SERVICED) _____ (GENERATOR/REPRESENTATIVE SIGNATURE)

TRANSPORTER INFORMATION
(MUST BE COMPLETED BY TRANSPORTER)

BUSINESS NAME: ALLWASTE RECOVERY SYSTEMS
ADDRESS: 2703 CARTWRIGHT ST. DALLAS, TX TELEPHONE: (214) 637-5504
TDH REGISTRATION NO. #20124 VEHICLE PERMIT - NO: _____
GALLONS REMOVED: _____

I certify that the information provided above is correct, and that only the waste certified for removal by the generator is contained in the servicing vehicle. I am aware that falsification of this trip ticket may result in revocation of my Liquid Waste Transportation Permit, and/or criminal prosecution

DRIVER NAME: X _____ (PRINT)

_____ (DATE AND TIME WASTE TRANSPORTED) _____ (DRIVER SIGNATURE)

DISPOSAL INFORMATION
(MUST BE COMPLETED BY DISPOSER)

BUSINESS NAME: ALLWASTE RECOVERY SYSTEMS
ADDRESS: 2131 PROGRESSIVE DR., DALLAS, TX TELEPHONE: (214) 637-5575
TDH PERMIT NO. #1421

I certify that I have been authorized by the Texas Department of Health to accept the above specified waste and that I have disposed of the waste in accordance with the requirements outlined in that authorization.

SITE OPERATOR NAME: _____ (PRINT)

_____ (DATE AND TIME WASTE RECEIVED) _____ (SITE OPERATOR SIGNATURE)

White - City Yellow - Generator Pink - Disposer Goldenrod - Transportor Green - Generator

APPENDIX F
French Underdrain System Confirmation Sampling Analytical Data

FPM

Pre-Excavation
Metals Data

FPM

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9904064-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	3.6	1	F
Barium, Total	.025	1.0	87	1	M
Cadmium, Total	.031	0.50	0.26	1	F

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9904064-04 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	26.3	1	
Barium, Total	.025	1.0	141.	1	M
Cadmium, Total	.031	0.50	3.22	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9904064-05 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	26.3	1	
Barium, Total	.025	1.0	128.	1	M
Cadmium, Total	.031	0.50	3.33	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9904064-12 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	4.4	1	F
Barium, Total	.025	1.0	110	1	M
Cadmium, Total	.031	0.50	0.14	1	F

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9904064-13 Matrix: Soil

% Solids: 83 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	4.3	1	F
Barium, Total	.025	1.0	100	1	M
Cadmium, Total	.031	0.50	0.14	1	F

Comments:

Pre-Excavation
SVOCs Data

FPM

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9905026-01 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.066	1.4	.066	2	U
1,2-Dichlorobenzene	.066	1.4	.066	2	U
1,3-Dichlorobenzene	.064	1.4	.064	2	U
1,4-Dichlorobenzene	.068	1.4	.068	2	U
2,4,5-Trichlorophenol	.094	6.6	.094	2	U
2,4,6-Trichlorophenol	.084	0.60	.084	2	U
2,4-Dichlorophenol	.082	0.60	.082	2	U
2,4-Dimethylphenol	.074	0.60	.074	2	U
2,4-Dinitrophenol	.22	6.6	.22	2	M
2,4-Dinitrotoluene	.084	1.4	.084	2	U
2,6-Dinitrotoluene	.08	1.4	.08	2	U
2-Chloronaphthalene	.08	1.4	.08	2	U
2-Chlorophenol	.068	0.60	.068	2	U
2-Methylnaphthalene	.074	1.4	.074	2	U
2-Methylphenol	.126	0.60	.126	2	U
2-Nitroaniline	.092	6.6	.092	2	U
2-Nitrophenol	.064	0.60	.064	2	U
3,3'-Dichlorobenzidine	.3	2.6	.3	2	R

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9905026-01 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.144	6.6	.144	2	U
4,6-Dinitro-2-methylphenol	.072	6.6	.072	2	U
4-Bromophenyl-phenylether	.076	1.4	.076	2	U
4-Chloro-3-methylphenol	.092	2.6	.092	2	U
4-Chloroaniline	.106	2.6	.106	2	R
4-Chlorophenyl-phenyl ether	.088	1.4	.088	2	U
4-Methylphenol	.082	0.60	.082	2	U
4-Nitroaniline	.08	6.6	.08	2	U
Acenaphthene	.084	1.4	.084	2	U
Acenaphthylene	.084	1.4	.084	2	U
Anthracene	.07	1.4	.07	2	U
Benzo(a)anthracene	.058	1.4	0.302	2	F
Benzo(a)pyrene	.052	1.4	0.263	2	R
Benzo(b)fluoranthene	.056	1.4	0.299	2	F
Benzo(g,h,i)Perylene	.074	1.4	0.128	2	F
Benzo(k)fluoranthene	.068	1.4	0.413	2	F
Benzoic acid	.04	3.2	.04	2	M
Benzyl alcohol	.12	2.6	.12	2	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

507.445

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9905026-01 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.094	1.4	.094	2	U
Bis(2-Chloroethyl)ether	.082	1.4	.082	2	U
Butylbenzylphthalate	.062	1.4	.062	2	U
Chrysene	.082	1.4	0.267	2	F
Di-N-Butylphthalate	.062	1.4	.062	2	U
Di-n-octylphthalate	.062	1.4	.062	2	M
Dibenzo(a,h)Anthracene	.078	1.4	.078	2	U
Dibenzofuran	.086	1.4	.086	2	U
Diethylphthalate	.098	1.4	.098	2	U
Dimethylphthalate	.092	1.4	.092	2	U
Fluoranthene	.056	1.4	0.488	2	F
Fluorene	.088	1.4	.088	2	U
Hexachlorobenzene	.08	1.4	.08	2	U
Hexachlorobutadiene	.074	1.4	.074	2	R
Hexachlorocyclopentadiene	.174	1.4	.174	2	R
Hexachloroethane	.066	1.4	.066	2	U
Indeno(1,2,3-cd)pyrene	.072	1.4	0.144	2	F
Isophorone	.086	1.4	.086	2	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9905026-01 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.07	1.4	.07	2	U
N-Nitrosodiphenylamine	.096	1.4	.096	2	U
Naphthalene	.072	1.4	.072	2	U
Nitrobenzene	.068	1.4	.068	2	U
Pentachlorophenol	.04	6.6	.04	2	U
Phenanthrene	.086	1.4	0.179	2	F
Phenol	.064	0.60	.064	2	U
Pyrene	.06	1.4	0.421	2	F
bis(2-Chloroisopropyl)ether	.082	1.4	.082	2	U
bis(2-Ethylhexyl)phthalate	.078	1.4	.078	2	U
p-Nitrophenol	.114	3.2	.114	2	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	81.8	25 - 144	
2-Fluorobiphenyl	82.8	34 - 135	
2-Fluorophenol	69.1	25 - 135	
Nitrobenzene-d5	78.7	25 - 135	
Phenol-d5	74.5	25 - 135	
p-Terphenyl-d14	88.7	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9905026-02 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.066	0.70	3.36	2	
1,2-Dichlorobenzene	.066	0.70	2.86	2	
1,3-Dichlorobenzene	.064	0.70	2.79	2	
1,4-Dichlorobenzene	.068	0.70	2.81	2	
2,4,5-Trichlorophenol	.094	3.3	3.47	2	
2,4,6-Trichlorophenol	.084	0.30	3.41	2	
2,4-Dichlorophenol	.082	0.30	3.42	2	
2,4-Dimethylphenol	.074	0.30	3.40	2	
2,4-Dinitrophenol	.22	3.3	1.41	2	M
2,4-Dinitrotoluene	.084	0.70	3.42	2	
2,6-Dinitrotoluene	.08	0.70	3.44	2	
2-Chloronaphthalene	.08	0.70	3.24	2	
2-Chlorophenol	.068	0.30	2.74	2	
2-Methylnaphthalene	.074	0.70	3.20	2	
2-Methylphenol	.126	0.30	3.11	2	
2-Nitroaniline	.092	3.3	3.55	2	
2-Nitrophenol	.064	0.30	2.98	2	
3,3'-Dichlorobenzidine	.3	1.3	.3	2	M

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9905026-02 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.144	3.3	3.04	2	
4,6-Dinitro-2-methylphenol	.072	3.3	2.14	2	
4-Bromophenyl-phenylether	.076	0.70	3.14	2	
4-Chloro-3-methylphenol	.092	1.3	3.70	2	
4-Chloroaniline	.106	1.3	0.964	2	M
4-Chlorophenyl-phenyl ether	.088	0.70	3.53	2	
4-Methylphenol	.082	0.30	3.01	2	
4-Nitroaniline	.08	3.3	2.61	2	
Acenaphthene	.084	0.70	3.21	2	
Acenaphthylene	.084	0.70	3.39	2	
Anthracene	.07	0.70	3.42	2	
Benzo(a)anthracene	.058	0.70	4.26	2	
Benzo(a)pyrene	.052	0.70	4.95	2	R
Benzo(b)fluoranthene	.056	0.70	5.98	2	
Benzo(g,h,i)Perylene	.074	0.70	1.76	2	
Benzo(k)fluoranthene	.068	0.70	4.14	2	
Benzoic acid	.04	1.6	0.871	2	M
Benzyl alcohol	.12	1.3	2.75	2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9905026-02 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.094	0.70	2.83	2	
Bis(2-Chloroethyl)ether	.082	0.70	3.06	2	
Butylbenzylphthalate	.062	0.70	2.91	2	
Chrysene	.082	0.70	3.86	2	
Di-N-Butylphthalate	.062	0.70	3.53	2	
Di-n-octylphthalate	.062	0.70	5.53	2	M
Dibenzo(a,h)Anthracene	.078	0.70	2.48	2	
Dibenzofuran	.086	0.70	3.37	2	
Diethylphthalate	.098	0.70	3.40	2	
Dimethylphthalate	.092	0.70	3.43	2	
Fluoranthene	.056	0.70	4.48	2	
Fluorene	.088	0.70	3.33	2	
Hexachlorobenzene	.08	0.70	3.71	2	
Hexachlorobutadiene	.074	0.70	3.88	2	R
Hexachlorocyclopentadiene	.174	0.70	2.91	2	R
Hexachloroethane	.066	0.70	3.03	2	
Indeno(1,2,3-cd)pyrene	.072	0.70	2.30	2	
Isophorone	.086	0.70	3.84	2	

Comments:

507 450

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9905026-02 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.07	0.70	3.19	2	
N-Nitrosodiphenylamine	.096	0.70	3.51	2	
Naphthalene	.072	0.70	2.89	2	
Nitrobenzene	.068	0.70	3.32	2	
Pentachlorophenol	.04	3.3	3.08	2	
Phenanthrene	.086	0.70	3.91	2	
Phenol	.064	0.30	2.77	2	
Pyrene	.06	0.70	3.91	2	
bis(2-Chloroisopropyl)ether	.082	0.70	3.06	2	
bis(2-Ethylhexyl)phthalate	.078	0.70	3.29	2	
p-Nitrophenol	.114	1.6	3.95	2	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	88.8	25 - 144	
2-Fluorobiphenyl	90.6	34 - 135	
2-Fluorophenol	69.9	25 - 135	
Nitrobenzene-d5	83.8	25 - 135	
Phenol-d5	75.8	25 - 135	
p-Terphenyl-d14	84.9	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9905026-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.066	0.70	3.36	2	
1,2-Dichlorobenzene	.066	0.70	2.86	2	
1,3-Dichlorobenzene	.064	0.70	2.79	2	
1,4-Dichlorobenzene	.068	0.70	2.81	2	
2,4,5-Trichlorophenol	.094	3.3	3.47	2	
2,4,6-Trichlorophenol	.084	0.30	3.41	2	
2,4-Dichlorophenol	.082	0.30	3.42	2	
2,4-Dimethylphenol	.074	0.30	3.40	2	
2,4-Dinitrophenol	.22	3.3	1.41	2	M
2,4-Dinitrotoluene	.084	0.70	3.42	2	
2,6-Dinitrotoluene	.08	0.70	3.44	2	
2-Chloronaphthalene	.08	0.70	3.24	2	
2-Chlorophenol	.068	0.30	2.74	2	
2-Methylnaphthalene	.074	0.70	3.20	2	
2-Methylphenol	.126	0.30	3.11	2	
2-Nitroaniline	.092	3.3	3.55	2	
2-Nitrophenol	.064	0.30	2.98	2	
3,3'-Dichlorobenzidine	.3	1.3	.3	2	M

Comments:

507 452

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9905026-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.144	3.3	3.04	2	
4,6-Dinitro-2-methylphenol	.072	3.3	2.14	2	
4-Bromophenyl-phenylether	.076	0.70	3.14	2	
4-Chloro-3-methylphenol	.092	1.3	3.70	2	
4-Chloroaniline	.106	1.3	0.964	2	M
4-Chlorophenyl-phenyl ether	.088	0.70	3.53	2	
4-Methylphenol	.082	0.30	3.01	2	
4-Nitroaniline	.08	3.3	2.61	2	
Acenaphthene	.084	0.70	3.21	2	
Acenaphthylene	.084	0.70	3.39	2	
Anthracene	.07	0.70	3.42	2	
Benzo(a)anthracene	.058	0.70	4.26	2	
Benzo(a)pyrene	.052	0.70	4.95	2	R
Benzo(b)fluoranthene	.056	0.70	5.98	2	
Benzo(g,h,i)Perylene	.074	0.70	1.76	2	
Benzo(k)fluoranthene	.068	0.70	4.98	2	
Benzoic acid	.04	1.6	0.871	2	M
Benzyl alcohol	.12	1.3	2.75	2	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9905026-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.094	0.70	2.83	2	
Bis(2-Chloroethyl)ether	.082	0.70	3.06	2	
Butylbenzylphthalate	.062	0.70	2.91	2	
Chrysene	.082	0.70	3.86	2	
Di-N-Butylphthalate	.062	0.70	3.53	2	
Di-n-octylphthalate	.062	0.70	5.53	2	M
Dibenzo(a,h)Anthracene	.078	0.70	2.48	2	
Dibenzofuran	.086	0.70	3.37	2	
Diethylphthalate	.098	0.70	3.40	2	
Dimethylphthalate	.092	0.70	3.43	2	
Fluoranthene	.056	0.70	4.48	2	
Fluorene	.088	0.70	3.33	2	
Hexachlorobenzene	.08	0.70	3.71	2	
Hexachlorobutadiene	.074	0.70	3.88	2	R
Hexachlorocyclopentadiene	.174	0.70	2.91	2	R
Hexachloroethane	.066	0.70	3.03	2	
Indeno(1,2,3-cd)pyrene	.072	0.70	2.30	2	
Isophorone	.086	0.70	3.84	2	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kamron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9905026-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.07	0.70	3.19	2	
N-Nitrosodiphenylamine	.096	0.70	3.51	2	
Naphthalene	.072	0.70	2.89	2	
Nitrobenzene	.068	0.70	3.32	2	
Pentachlorophenol	.04	3.3	3.08	2	
Phenanthrene	.086	0.70	3.91	2	
Phenol	.064	0.30	2.77	2	
Pyrene	.06	0.70	3.91	2	
bis(2-Chloroisopropyl)ether	.082	0.70	3.06	2	
bis(2-Ethylhexyl)phthalate	.078	0.70	3.29	2	
p-Nitrophenol	.114	1.6	3.95	2	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	88.8	25 - 144	
2-Fluorobiphenyl	90.6	34 - 135	
2-Fluorophenol	69.9	25 - 135	
Nitrobenzene-d5	83.8	25 - 135	
Phenol-d5	75.6	25 - 135	
p-Terphenyl-d14	84.9	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9905026-04 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	M
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9905026-04 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	R
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	U
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	R
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzo(k)fluoranthene	.034	0.70	.034	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9905026-04 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	M
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	R
Hexachlorocyclopentadiene	.087	0.70	.087	1	R
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9905026-04 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	34.1	25 - 144	
2-Fluorobiphenyl	34.2	34 - 135	
2-Fluorophenol	28.5	25 - 135	
Nitrobenzene-d5	35.5	25 - 135	
Phenol-d5	29.6	25 - 135	
p-Terphenyl-d14	37.1	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV0208AA/DUP Lab Sample ID: L9905026-05 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	M
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	R

Comments:

507 460

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9905026-05 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	R
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	U
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	R
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzo(k)fluoranthene	.034	0.70	.034	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9905026-05 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	U
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	U
Di-n-octylphthalate	.031	0.70	.031	1	M
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	R
Hexachlorocyclopentadiene	.087	0.70	.087	1	R
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9905026-05 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS4 7-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U
N-Nitrosodiphenylamine	.048	0.70	.048	1	U
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	U
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	65.6	25 - 144	
2-Fluorobiphenyl	66.4	34 - 135	
2-Fluorophenol	59.9	25 - 135	
Nitrobenzene-d5	73.1	25 - 135	
Phenol-d5	62.3	25 - 135	
p-Terphenyl-d14	84.2	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

Pre-Excavation
VOCs Data

FPM

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	R
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	R
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

507 465

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	R
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	0.310	1	F
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	R
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	R
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
sec-Butylbenzene	.25	1.3	.25	1	R
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	116	62 - 139	
4-Bromofluorobenzene	125	75 - 125	
Dibromofluoromethane	98.9	75 - 125	
Toluene-d8	94.8	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9904068-05 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	.00013	1	M
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	M
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.000097	0.002	.000097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	M
1,3-Dichlorobenzene	.00019	0.006	.00019	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

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Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9904068-05 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	M
1-Chlorohexane	.000044	0.003	.000044	1	R
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	M
4-Chlorotoluene	.00014	0.003	.00014	1	M
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	M
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	U
Bromomethane	.00035	0.005	.00035	1	U
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	0.000556	1	F
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9904068-05 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	R
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	M
Isopropylbenzene	.000075	0.008	.000075	1	M
Methylene chloride	.00071	0.002	0.00216	1	F
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000933	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	U
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	M
n-Propylbenzene	.00012	0.002	.00012	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9904068-05 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	M
tert-Butylbenzene	.00012	0.007	.00012	1	M
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	103	52 - 149	
4-Bromofluorobenzene	115	65 - 135	
Dibromofluoromethane	104	65 - 135	
Toluene-d8	110	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9904068-06 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	0.0172	1	
1,1,1-Trichloroethane	.00018	0.004	0.0213	1	
1,1,2,2-Tetrachloroethane	.00012	0.002	0.0167	1	
1,1,2-Trichloroethane	.00017	0.005	0.0200	1	
1,1-Dichloroethane	.00015	0.002	0.0219	1	
1,1-Dichloroethene	.00012	0.006	0.0224	1	
1,1-Dichloropropene	.000076	0.005	0.0224	1	
1,2,3-Trichlorobenzene	.00023	0.002	0.00522	1	M
1,2,3-Trichloropropane	.00019	0.02	0.0174	1	
1,2,4-Trichlorobenzene	.00027	0.002	0.00578	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.0124	1	M
1,2-Dibromo-3-chloropropane	.00035	0.01	0.0136	1	
1,2-Dibromoethane	.00012	0.003	0.0180	1	
1,2-Dichlorobenzene	.00015	0.002	0.0106	1	M
1,2-Dichloroethane	.00016	0.003	0.0208	1	
1,2-Dichloropropane	.000097	0.002	0.0211	1	
1,3,5-Trimethylbenzene	.000092	0.003	0.0131	1	M
1,3-Dichlorobenzene	.00019	0.006	0.0104	1	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9904068-06 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	0.0194	1	
1,4-Dichlorobenzene	.00015	0.002	0.0104	1	M
1-Chlorohexane	.000044	0.003	0.00667	1	R
2,2-Dichloropropane	.00012	0.02	0.0219	1	
2-Chlorotoluene	.00014	0.002	0.0129	1	M
4-Chlorotoluene	.00014	0.003	0.0133	1	M
Benzene	.00012	0.002	0.0278	1	
Bromobenzene	.00015	0.002	0.0133	1	M
Bromochloromethane	.00011	0.002	0.0207	1	
Bromodichloromethane	.00012	0.004	0.0200	1	
Bromoform	.00016	0.006	0.0150	1	
Bromomethane	.00035	0.005	0.0298	1	J
Carbon tetrachloride	.00017	0.01	0.0203	1	
Chlorobenzene	.00018	0.002	0.0168	1	
Chloroethane	.00046	0.005	0.0269	1	
Chloroform	.00016	0.002	0.0213	1	
Chloromethane	.00034	0.007	0.0269	1	
Dibromochloromethane	.00014	0.003	0.0179	1	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: 813SFU0108AA/MS Lab Sample ID: L9904068-06 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	0.0199	1	
Dichlorodifluoromethane	.00031	0.005	0.0296	1	R
Ethylbenzene	.00014	0.003	0.0166	1	
Hexachlorobutadiene	.00026	0.005	0.00889	1	M
Isopropylbenzene	.000075	0.008	0.0133	1	M
Methylene chloride	.00071	0.002	0.0240	1	
Naphthalene	.0009	0.002	0.00678	1	M
Styrene	.000074	0.002	0.0152	1	
Tetrachloroethene	.00021	0.007	0.0164	1	
Toluene	.00013	0.005	0.0260	1	
Trichloroethene	.00018	0.01	0.0192	1	
Trichlorofluoromethane	.00028	0.004	0.0221	1	
Vinyl chloride	.00039	0.009	0.0291	1	
cis-1,2-Dichloroethene	.000094	0.006	0.0214	1	
cis-1,3-Dichloropropene	.000097	0.005	0.0207	1	
m-,p-Xylene	.0002	0.005	0.0320	1	
n-Butylbenzene	.00012	0.005	0.0114	1	M
n-Propylbenzene	.00012	0.002	0.0141	1	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9904068-06 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	0.0157	1	
sec-Butylbenzene	.00011	0.007	0.0127	1	M
tert-Butylbenzene	.00012	0.007	0.0127	1	M
trans-1,2-Dichloroethene	.000084	0.003	0.0236	1	
trans-1,3-Dichloropropene	.0001	0.005	0.0184	1	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	101	52 - 149	
4-Bromofluorobenzene	112	65 - 135	
Dibromofluoromethane	102	65 - 135	
Toluene-d8	111	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9904068-07 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	0.0184	1	
1,1,1-Trichloroethane	.00018	0.004	0.0221	1	
1,1,2,2-Tetrachloroethane	.00012	0.002	0.0178	1	
1,1,2-Trichloroethane	.00017	0.005	0.0209	1	
1,1-Dichloroethane	.00015	0.002	0.0233	1	
1,1-Dichloroethene	.00012	0.006	0.0240	1	
1,1-Dichloropropene	.000076	0.005	0.0240	1	
1,2,3-Trichlorobenzene	.00023	0.002	0.00600	1	M
1,2,3-Trichloropropane	.00019	0.02	0.0186	1	
1,2,4-Trichlorobenzene	.00027	0.002	0.00633	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.0138	1	M
1,2-Dibromo-3-chloropropane	.00035	0.01	0.0150	1	
1,2-Dibromoethane	.00012	0.003	0.0193	1	
1,2-Dichlorobenzene	.00015	0.002	0.0113	1	M
1,2-Dichloroethane	.00016	0.003	0.0216	1	
1,2-Dichloropropane	.000097	0.002	0.0224	1	
1,3,5-Trimethylbenzene	.000092	0.003	0.0147	1	M
1,3-Dichlorobenzene	.00019	0.006	0.0117	1	M

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9904068-07 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	0.0209	1	
1,4-Dichlorobenzene	.00015	0.002	0.0114	1	M
1-Chlorohexane	.000044	0.003	0.00711	1	R
2,2-Dichloropropane	.00012	0.02	0.0233	1	
2-Chlorotoluene	.00014	0.002	0.0151	1	M
4-Chlorotoluene	.00014	0.003	0.0137	1	M
Benzene	.00012	0.002	0.0229	1	
Bromobenzene	.00015	0.002	0.0149	1	M
Bromochloromethane	.00011	0.002	0.0220	1	
Bromodichloromethane	.00012	0.004	0.0210	1	
Bromoform	.00016	0.006	0.0161	1	
Bromomethane	.00035	0.005	0.0298	1	J
Carbon tetrachloride	.00017	0.01	0.0212	1	
Chlorobenzene	.00018	0.002	0.0177	1	
Chloroethane	.00046	0.005	0.0280	1	
Chloroform	.00016	0.002	0.0227	1	
Chloromethane	.00034	0.007	0.0278	1	
Dibromochloromethane	.00014	0.003	0.0189	1	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9904068-07 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	0.0210	1	
Dichlorodifluoromethane	.00031	0.005	0.0322	1	R
Ethylbenzene	.00014	0.003	0.0180	1	
Hexachlorobutadiene	.00026	0.005	0.0100	1	M
Isopropylbenzene	.000075	0.008	0.0148	1	M
Methylene chloride	.00071	0.002	0.0253	1	
Naphthalene	.0009	0.002	0.00789	1	M
Styrene	.000074	0.002	0.0164	1	
Tetrachloroethene	.00021	0.007	0.0173	1	
Toluene	.00013	0.005	0.0218	1	
Trichloroethene	.00018	0.01	0.0206	1	
Trichlorofluoromethane	.00026	0.004	0.0233	1	
Vinyl chloride	.00039	0.009	0.0298	1	
cis-1,2-Dichloroethene	.000094	0.006	0.0229	1	
cis-1,3-Dichloropropene	.000097	0.005	0.0218	1	
m-,p-Xylene	.0002	0.005	0.0346	1	
n-Butylbenzene	.00012	0.008	0.0131	1	M
n-Propylbenzene	.00012	0.002	0.0157	1	M

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9904068-07 Matrix: Soil

% Solids: 90 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	0.0171	1	
sec-Butylbenzene	.00011	0.007	0.0146	1	M
tert-Butylbenzene	.00012	0.007	0.0144	1	M
trans-1,2-Dichloroethene	.000084	0.003	0.0251	1	
trans-1,3-Dichloropropene	.0001	0.005	0.0194	1	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	52 - 149	
4-Bromofluorobenzene	112	65 - 135	
Dibromofluoromethane	103	65 - 135	
Toluene-d8	110	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9904068-08 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	.00013	1	M
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	M
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.000097	0.002	.000097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	M
1,3-Dichlorobenzene	.00019	0.006	.00019	1	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9904068-08 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	M
1-Chlorohexane	.000044	0.003	.000044	1	R
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	M
4-Chlorotoluene	.00014	0.003	.00014	1	M
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	M
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	U
Bromomethane	.00035	0.005	.00035	1	U
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	0.000296	1	F
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.005	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9904068-08 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	R
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	M
Isopropylbenzene	.000075	0.008	.000075	1	M
Methylene chloride	.00071	0.002	0.00132	1	F
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000519	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	U
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	M
n-Propylbenzene	.00012	0.002	.00012	1	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9904068-08 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	M
tert-Butylbenzene	.00012	0.007	.00012	1	M
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	113	52 - 149	
4-Bromofluorobenzene	112	65 - 135	
Dibromofluoromethane	107	65 - 135	
Toluene-d8	110	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9904068-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	.00013	1	M
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	M
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.000097	0.002	.000097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	M
1,3-Dichlorobenzene	.00019	0.006	.00019	1	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9904068-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	M
1-Chlorohexane	.000044	0.003	.000044	1	R
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	M
4-Chlorotoluene	.00014	0.003	.00014	1	M
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	M
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	U
Bromomethane	.00035	0.005	.00035	1	U
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	0.000494	1	F
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9904068-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	R
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	M
Isopropylbenzene	.000075	0.008	.000075	1	M
Methylene chloride	.00071	0.002	0.00164	1	F
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000901	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	U
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	M
n-Propylbenzene	.00012	0.002	.00012	1	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9904068-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 8-APR-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	M
tert-Butylbenzene	.00012	0.007	.00012	1	M
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	114	52 - 149	
4-Bromofluorobenzene	113	65 - 135	
Dibromofluoromethane	108	65 - 135	
Toluene-d8	108	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

Post-Excavation
Metals Data

FPM

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	5.0	1	
Barium, Total	.18	1.0	82.8	1	
Cadmium, Total	.031	0.10	0.20	1	

Comments:

507 490

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	5.9	1	
Barium, Total	.18	1.0	198	1	
Cadmium, Total	.031	0.10	0.37	1	

Comments:

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INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	4.6	1	
Barium, Total	.18	1.0	70.1	1	
Cadmium, Total	.031	0.10	0.26	1	

Comments:

507 492

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	7.8	1	
Barium, Total	.18	1.0	62.7	1	
Cadmium, Total	.031	0.10	0.24	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	5.1	1	
Barium, Total	.18	1.0	229	1	
Cadmium, Total	.031	0.10	0.27	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	2.5	1	
Barium, Total	.18	1.0	83.9	1	
Cadmium, Total	.031	0.10	0.10	1	F

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	5.5	1	
Barium, Total	.18	1.0	113	1	
Cadmium, Total	.031	0.10	0.29	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	4.4	1	
Barium, Total	.18	1.0	83.3	1	
Cadmium, Total	.031	0.10	0.14	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	4.5	1	
Barium, Total	.18	1.0	77.8	1	
Cadmium, Total	.031	0.10	0.32	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	11	1	
Barium, Total	.18	1.0	27.0	1	
Cadmium, Total	.031	0.10	0.11	1	F

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	10	1	
Barium, Total	.18	1.0	29.2	1	
Cadmium, Total	.031	0.10	0.098	1	F

Comments:

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INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	20.6	1	
Barium, Total	.18	1.0	51.5	1	
Cadmium, Total	.031	0.10	2.52	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG60295

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: IRIS-ICP 29-JUN-99

Date Received: 19-JUN-99 Date Extracted: 24-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	1.0	25.5	1	
Barium, Total	.18	1.0	54.0	1	
Cadmium, Total	.031	0.10	2.59	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG59997

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0100BE Lab Sample ID: L9906513-03 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 24-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.0029	0.005	.0029	1	U
Barium, Total	.00085	0.005	.00085	1	U
Cadmium, Total	.00011	0.001	.00011	1	U

Comments:

Post-Excavation
SVOCs Data

FPM

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.066	1.4	.066	2	U
1,2-Dichlorobenzene	.066	1.4	.066	2	R
1,3-Dichlorobenzene	.064	1.4	.064	2	R
1,4-Dichlorobenzene	.068	1.4	.068	2	R
2,4,5-Trichlorophenol	.094	6.6	.094	2	U
2,4,6-Trichlorophenol	.084	0.60	.084	2	U
2,4-Dichlorophenol	.082	0.60	.082	2	U
2,4-Dimethylphenol	.074	0.60	.074	2	U
2,4-Dinitrophenol	.22	6.6	.22	2	R
2,4-Dinitrotoluene	.084	1.4	.084	2	U
2,6-Dinitrotoluene	.08	1.4	.08	2	U
2-Chloronaphthalene	.08	1.4	.08	2	U
2-Chlorophenol	.068	0.60	.068	2	R
2-Methylnaphthalene	.074	1.4	.074	2	U
2-Methylphenol	.126	0.60	.126	2	R
2-Nitroaniline	.092	6.6	.092	2	U
2-Nitrophenol	.064	0.60	.064	2	U
3,3'-Dichlorobenzidine	.3	2.6	.3	2	M

Comments:

507 505

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.144	6.6	.144	2	U
4,6-Dinitro-2-methylphenol	.072	6.6	.072	2	U
4-Bromophenyl-phenylether	.076	1.4	.076	2	U
4-Chloro-3-methylphenol	.092	2.6	.092	2	U
4-Chloroaniline	.106	2.6	.106	2	M
4-Chlorophenyl-phenyl ether	.088	1.4	.088	2	U
4-Methylphenol	.082	0.60	.082	2	R
4-Nitroaniline	.08	6.6	.08	2	R
Acenaphthene	.084	1.4	.084	2	U
Acenaphthylene	.084	1.4	.084	2	U
Anthracene	.07	1.4	.07	2	U
Benzo(a)anthracene	.058	1.4	.058	2	U
Benzo(a)pyrene	.052	1.4	.052	2	U
Benzo(b)fluoranthene	.056	1.4	.056	2	U
Benzo(g,h,i)Perylene	.074	1.4	.074	2	U
Benzoic acid	.04	3.2	.04	2	M
Benzyl alcohol	.12	2.6	.12	2	R
Bis(2-Chloroethoxy)Methane	.094	1.4	.094	2	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.082	1.4	.082	2	R
Butylbenzylphthalate	.062	1.4	.062	2	M
Chrysene	.082	1.4	.082	2	U
Di-N-Butylphthalate	.062	1.4	.062	2	M
Di-n-octylphthalate	.062	1.4	.062	2	U
Dibenzo(a,h)Anthracene	.078	1.4	.078	2	U
Dibenzofuran	.086	1.4	.086	2	U
Diethylphthalate	.098	1.4	.098	2	U
Dimethylphthalate	.092	1.4	.092	2	U
Fluoranthene	.056	1.4	.056	2	U
Fluorene	.088	1.4	.088	2	U
Hexachlorobenzene	.08	1.4	.08	2	U
Hexachlorobutadiene	.074	1.4	.074	2	U
Hexachlorocyclopentadiene	.174	1.4	.174	2	U
Hexachloroethane	.066	1.4	.066	2	R
Indeno(1,2,3-cd)pyrene	.072	1.4	.072	2	U
Isophorone	.086	1.4	.086	2	U
N-Nitroso-di-n-propylamine	.07	1.4	.07	2	R

Comments:

507 507

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.096	1.4	.096	2	M
Naphthalene	.072	1.4	.072	2	U
Nitrobenzene	.068	1.4	.068	2	U
Pentachlorophenol	.04	6.6	.04	2	U
Phenanthrene	.086	1.4	.086	2	U
Phenol	.064	0.60	.064	2	U
Pyrene	.06	1.4	.06	2	U
bis(2-Chloroisopropyl)ether	.082	1.4	.082	2	R
bis(2-Ethylhexyl)phthalate	.078	1.4	.078	2	M
p-Nitrophenol	.114	3.2	.114	2	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	77.3	25 - 144	
2-Fluorobiphenyl	65.4	34 - 135	
2-Fluorophenol	19.0	25 - 135	*
Nitrobenzene-d5	74.9	25 - 135	
Phenol-d5	80.2	25 - 135	
p-Terphenyl-d14	83.1	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.066	1.4	.066	2	U
1,2-Dichlorobenzene	.066	1.4	.066	2	R
1,3-Dichlorobenzene	.064	1.4	.064	2	R
1,4-Dichlorobenzene	.068	1.4	.068	2	R
2,4,5-Trichlorophenol	.094	6.6	.094	2	U
2,4,6-Trichlorophenol	.084	0.60	.084	2	U
2,4-Dichlorophenol	.082	0.60	.082	2	U
2,4-Dimethylphenol	.074	0.60	.074	2	U
2,4-Dinitrophenol	.22	6.6	.22	2	R
2,4-Dinitrotoluene	.084	1.4	.084	2	U
2,6-Dinitrotoluene	.08	1.4	.08	2	U
2-Chloronaphthalene	.08	1.4	.08	2	U
2-Chlorophenol	.068	0.60	.068	2	R
2-Methylnaphthalene	.074	1.4	.074	2	U
2-Methylphenol	.126	0.60	.126	2	R
2-Nitroaniline	.092	6.6	.092	2	U
2-Nitrophenol	.064	0.60	.064	2	U
3,3'-Dichlorobenzidine	.3	2.6	.3	2	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.144	6.6	.144	2	U
4,6-Dinitro-2-methylphenol	.072	6.6	.072	2	U
4-Bromophenyl-phenylether	.076	1.4	.076	2	U
4-Chloro-3-methylphenol	.092	2.6	.092	2	U
4-Chloroaniline	.106	2.6	.106	2	M
4-Chlorophenyl-phenyl ether	.088	1.4	.088	2	U
4-Methylphenol	.082	0.60	.082	2	R
4-Nitroaniline	.08	6.6	.08	2	R
Acenaphthene	.084	1.4	.084	2	U
Acenaphthylene	.084	1.4	.084	2	U
Anthracene	.07	1.4	.07	2	U
Benzo(a)anthracene	.058	1.4	.058	2	U
Benzo(a)pyrene	.052	1.4	.052	2	U
Benzo(b)fluoranthene	.056	1.4	.056	2	U
Benzo(g,h,i)Perylene	.074	1.4	.074	2	U
Benzoic acid	.04	3.2	.04	2	M
Benzyl alcohol	.12	2.6	.12	2	R
Bis(2-Chloroethoxy)Methane	.094	1.4	.094	2	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.082	1.4	.082	2	R
Butylbenzylphthalate	.062	1.4	.062	2	M
Chrysene	.082	1.4	.082	2	U
Di-N-Butylphthalate	.062	1.4	.062	2	M
Di-n-octylphthalate	.062	1.4	.062	2	U
Dibenzo(a,h)Anthracene	.078	1.4	.078	2	U
Dibenzofuran	.086	1.4	.086	2	U
Diethylphthalate	.098	1.4	.098	2	U
Dimethylphthalate	.092	1.4	.092	2	U
Fluoranthene	.056	1.4	0.111	2	F
Fluorene	.088	1.4	.088	2	U
Hexachlorobenzene	.08	1.4	.08	2	U
Hexachlorobutadiene	.074	1.4	.074	2	U
Hexachlorocyclopentadiene	.174	1.4	.174	2	U
Hexachloroethane	.066	1.4	.066	2	R
Indeno(1,2,3-cd)pyrene	.072	1.4	.072	2	U
Isophorone	.086	1.4	.086	2	U
N-Nitroso-di-n-propylamine	.07	1.4	.07	2	R

Comments:

507 511

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.096	1.4	.096	2	M
Naphthalene	.072	1.4	.072	2	U
Nitrobenzene	.068	1.4	.068	2	U
Pentachlorophenol	.04	6.6	.04	2	U
Phenanthrene	.086	1.4	.086	2	U
Phenol	.064	0.60	.064	2	U
Pyrene	.06	1.4	0.0744	2	F
bis(2-Chloroisopropyl)ether	.082	1.4	.082	2	R
bis(2-Ethylhexyl)phthalate	.078	1.4	.078	2	M
p-Nitrophenol	.114	3.2	.114	2	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	74.8	25 - 144	
2-Fluorobiphenyl	65.2	34 - 135	
2-Fluorophenol	13.9	25 - 135	*
Nitrobenzene-d5	69.4	25 - 135	
Phenol-d5	69.2	25 - 135	
p-Terphenyl-d14	77.8	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	R
1,3-Dichlorobenzene	.032	0.70	.032	1	R
1,4-Dichlorobenzene	.034	0.70	.034	1	R
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	R
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	R
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	R
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	R
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	R
Butylbenzylphthalate	.031	0.70	.031	1	M
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	M
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	R
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	M
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	R
bis(2-Ethylhexyl)phthalate	.039	0.70	0.0447	1	M
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	72.5	25 - 144	
2-Fluorobiphenyl	51.8	34 - 135	
2-Fluorophenol	24.3	25 - 135	*
Nitrobenzene-d5	50.8	25 - 135	
Phenol-d5	58.5	25 - 135	
p-Terphenyl-d14	115	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUL-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.33	7.0	.33	10	U
1,2-Dichlorobenzene	.33	7.0	.33	10	R
1,3-Dichlorobenzene	.32	7.0	.32	10	R
1,4-Dichlorobenzene	.34	7.0	.34	10	R
2,4,5-Trichlorophenol	.47	33	.47	10	U
2,4,6-Trichlorophenol	.42	3.0	.42	10	U
2,4-Dichlorophenol	.41	3.0	.41	10	U
2,4-Dimethylphenol	.37	3.0	.37	10	U
2,4-Dinitrophenol	1.1	33	1.1	10	R
2,4-Dinitrotoluene	.42	7.0	.42	10	U
2,6-Dinitrotoluene	.4	7.0	.4	10	U
2-Chloronaphthalene	.4	7.0	.4	10	U
2-Chlorophenol	.34	3.0	.34	10	R
2-Methylnaphthalene	.37	7.0	.37	10	U
2-Methylphenol	.63	3.0	.63	10	R
2-Nitroaniline	.46	33	.46	10	U
2-Nitrophenol	.32	3.0	.32	10	U
3,3'-Dichlorobenzidine	1.5	13	1.5	10	M

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUL-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.72	33	.72	10	U
4,6-Dinitro-2-methylphenol	.36	33	.36	10	U
4-Bromophenyl-phenylether	.38	7.0	.38	10	U
4-Chloro-3-methylphenol	.46	13	.46	10	U
4-Chloroaniline	.53	13	.53	10	M
4-Chlorophenyl-phenyl ether	.44	7.0	.44	10	U
4-Methylphenol	.41	3.0	.41	10	R
4-Nitroaniline	.4	33	.4	10	R
Acenaphthene	.42	7.0	.42	10	U
Acenaphthylene	.42	7.0	.42	10	U
Anthracene	.35	7.0	.35	10	U
Benzo(a)anthracene	.29	7.0	.29	10	U
Benzo(a)pyrene	.26	7.0	.26	10	U
Benzo(b)fluoranthene	.28	7.0	.28	10	U
Benzo(g,h,i)Perylene	.37	7.0	.37	10	U
Benzoic acid	.2	16	.2	10	M
Benzyl alcohol	.6	13	.6	10	R
Bis(2-Chloroethoxy)Methane	.47	7.0	.47	10	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUL-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.41	7.0	.41	10	R
Butylbenzylphthalate	.31	7.0	.31	10	M
Chrysene	.41	7.0	.41	10	U
Di-N-Butylphthalate	.31	7.0	.31	10	M
Di-n-octylphthalate	.31	7.0	.31	10	U
Dibenzo(a,h)Anthracene	.39	7.0	.39	10	U
Dibenzofuran	.43	7.0	.43	10	U
Diethylphthalate	.49	7.0	.49	10	U
Dimethylphthalate	.46	7.0	.46	10	U
Fluoranthene	.28	7.0	.28	10	U
Fluorene	.44	7.0	.44	10	U
Hexachlorobenzene	.4	7.0	.4	10	U
Hexachlorobutadiene	.37	7.0	.37	10	U
Hexachlorocyclopentadiene	.87	7.0	.87	10	U
Hexachloroethane	.33	7.0	.33	10	R
Indeno(1,2,3-cd)pyrene	.36	7.0	.36	10	U
Isophorone	.43	7.0	.43	10	U
N-Nitroso-di-n-propylamine	.35	7.0	.35	10	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS3 23-JUL-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.48	7.0	.48	10	M
Naphthalene	.36	7.0	.36	10	U
Nitrobenzene	.34	7.0	.34	10	U
Pentachlorophenol	.2	33	.2	10	U
Phenanthrene	.43	7.0	.43	10	U
Phenol	.32	3.0	.32	10	U
Pyrene	.3	7.0	.3	10	U
bis(2-Chloroisopropyl)ether	.41	7.0	.41	10	R
bis(2-Ethylhexyl)phthalate	.39	7.0	.39	10	M
p-Nitrophenol	.57	16	.57	10	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	56.3	25 - 144	
2-Fluorobiphenyl	62.9	34 - 135	
2-Fluorophenol	10.5	25 - 135	*
Nitrobenzene-d5	90.4	25 - 135	
Phenol-d5	66.8	25 - 135	
p-Terphenyl-d14	54.2	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	R
1,3-Dichlorobenzene	.032	0.70	.032	1	R
1,4-Dichlorobenzene	.034	0.70	.034	1	R
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	R
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	R
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	R
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	R
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	R
Butylbenzylphthalate	.031	0.70	.031	1	M
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	M
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	R
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	R

Comments:

507 523

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	M
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	R
bis(2-Ethylhexyl)phthalate	.039	0.70	0.036	1	M
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	77.8	25 - 144	
2-Fluorobiphenyl	62.2	34 - 135	
2-Fluorophenol	18.5	25 - 135	*
Nitrobenzene-d5	63.2	25 - 135	
Phenol-d5	72.1	25 - 135	
p-Terphenyl-d14	88.8	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	M
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	M
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	M
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	0.0398	1	M
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	71.6	25 - 144	
2-Fluorobiphenyl	56.7	34 - 135	
2-Fluorophenol	26.1	25 - 135	
Nitrobenzene-d5	57.4	25 - 135	
Phenol-d5	65.4	25 - 135	
p-Terphenyl-d14	92.0	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.33	7.0	.33	10	U
1,2-Dichlorobenzene	.33	7.0	.33	10	R
1,3-Dichlorobenzene	.32	7.0	.32	10	R
1,4-Dichlorobenzene	.34	7.0	.34	10	R
2,4,5-Trichlorophenol	.47	33	.47	10	U
2,4,6-Trichlorophenol	.42	3.0	.42	10	U
2,4-Dichlorophenol	.41	3.0	.41	10	U
2,4-Dimethylphenol	.37	3.0	.37	10	U
2,4-Dinitrophenol	1.1	33	1.1	10	R
2,4-Dinitrotoluene	.42	7.0	.42	10	U
2,6-Dinitrotoluene	.4	7.0	.4	10	U
2-Chloronaphthalene	.4	7.0	.4	10	U
2-Chlorophenol	.34	3.0	.34	10	R
2-Methylnaphthalene	.37	7.0	.37	10	U
2-Methylphenol	.63	3.0	.63	10	R
2-Nitroaniline	.46	33	.46	10	U
2-Nitrophenol	.32	3.0	.32	10	U
3,3'-Dichlorobenzidine	1.5	13	1.5	10	M

Comments:

93 506
507 529

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.72	33	.72	10	U
4,6-Dinitro-2-methylphenol	.36	33	.36	10	U
4-Bromophenyl-phenylether	.38	7.0	.38	10	U
4-Chloro-3-methylphenol	.46	13	.46	10	U
4-Chloroaniline	.53	13	.53	10	M
4-Chlorophenyl-phenyl ether	.44	7.0	.44	10	U
4-Methylphenol	.41	3.0	.41	10	R
4-Nitroaniline	.4	33	.4	10	R
Acenaphthene	.42	7.0	.42	10	U
Acenaphthylene	.42	7.0	.42	10	U
Anthracene	.35	7.0	.35	10	U
Benzo(a)anthracene	.29	7.0	.29	10	U
Benzo(a)pyrene	.26	7.0	.26	10	U
Benzo(b)fluoranthene	.28	7.0	.28	10	U
Benzo(g,h,i)Perylene	.37	7.0	.37	10	U
Benzoic acid	.2	16	.2	10	M
Benzyl alcohol	.6	13	.6	10	R
Bis(2-Chloroethoxy)Methane	.47	7.0	.47	10	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.41	7.0	.41	10	R
Butylbenzylphthalate	.31	7.0	.31	10	M
Chrysene	.41	7.0	.41	10	U
Di-N-Butylphthalate	.31	7.0	.31	10	M
Di-n-octylphthalate	.31	7.0	.31	10	U
Dibenzo(a,h)Anthracene	.39	7.0	.39	10	U
Dibenzofuran	.43	7.0	.43	10	U
Diethylphthalate	.49	7.0	.49	10	U
Dimethylphthalate	.46	7.0	.46	10	U
Fluoranthene	.28	7.0	.28	10	U
Fluorene	.44	7.0	.44	10	U
Hexachlorobenzene	.4	7.0	.4	10	U
Hexachlorobutadiene	.37	7.0	.37	10	U
Hexachlorocyclopentadiene	.87	7.0	.87	10	U
Hexachloroethane	.33	7.0	.33	10	R
Indeno(1,2,3-cd)pyrene	.36	7.0	.36	10	U
Isophorone	.43	7.0	.43	10	U
N-Nitroso-di-n-propylamine	.35	7.0	.35	10	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810RA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.48	7.0	.48	10	M
Naphthalene	.36	7.0	.36	10	U
Nitrobenzene	.34	7.0	.34	10	U
Pentachlorophenol	.2	33	.2	10	U
Phenanthrene	.43	7.0	.43	10	U
Phenol	.32	3.0	.32	10	U
Pyrene	.3	7.0	.3	10	U
bis(2-Chloroisopropyl)ether	.41	7.0	.41	10	R
bis(2-Ethylhexyl)phthalate	.39	7.0	.39	10	M
p-Nitrophenol	.57	16	.57	10	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	61.6	25 - 144	
2-Fluorobiphenyl	62.4	34 - 135	
2-Fluorophenol	12.3	25 - 135	*
Nitrobenzene-d5	97.3	25 - 135	
Phenol-d5	72.1	25 - 135	
p-Terphenyl-d14	53.1	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	R
1,3-Dichlorobenzene	.032	0.70	.032	1	R
1,4-Dichlorobenzene	.034	0.70	.034	1	R
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	R
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	R
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	R
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	R
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	R
Butylbenzylphthalate	.031	0.70	.031	1	M
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	M
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	0.0684	1	F
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	R
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	R

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	M
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	0.0453	1	F
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	R
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	M
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	81.2	25 - 144	
2-Fluorobiphenyl	72.1	34 - 135	
2-Fluorophenol	18.6	25 - 135	*
Nitrobenzene-d5	74.0	25 - 135	
Phenol-d5	80.1	25 - 135	
p-Terphenyl-d14	93.5	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.066	1.4	.066	2	U
1,2-Dichlorobenzene	.066	1.4	.066	2	R
1,3-Dichlorobenzene	.064	1.4	.064	2	R
1,4-Dichlorobenzene	.068	1.4	.068	2	R
2,4,5-Trichlorophenol	.094	6.6	.094	2	U
2,4,6-Trichlorophenol	.084	0.60	.084	2	U
2,4-Dichlorophenol	.082	0.60	.082	2	U
2,4-Dimethylphenol	.074	0.60	.074	2	U
2,4-Dinitrophenol	.22	6.6	.22	2	R
2,4-Dinitrotoluene	.084	1.4	.084	2	U
2,6-Dinitrotoluene	.08	1.4	.08	2	U
2-Chloronaphthalene	.08	1.4	.08	2	U
2-Chlorophenol	.068	0.60	.068	2	R
2-Methylnaphthalene	.074	1.4	.074	2	U
2-Methylphenol	.126	0.60	.126	2	R
2-Nitroaniline	.092	6.6	.092	2	U
2-Nitrophenol	.064	0.60	.064	2	U
3,3'-Dichlorobenzidine	.3	2.6	.3	2	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.144	6.6	.144	2	U
4,6-Dinitro-2-methylphenol	.072	6.6	.072	2	U
4-Bromophenyl-phenylether	.076	1.4	.076	2	U
4-Chloro-3-methylphenol	.092	2.6	.092	2	U
4-Chloroaniline	.106	2.6	.106	2	M
4-Chlorophenyl-phenyl ether	.088	1.4	.088	2	U
4-Methylphenol	.082	0.60	.082	2	R
4-Nitroaniline	.08	6.6	.08	2	R
Acenaphthene	.084	1.4	.084	2	U
Acenaphthylene	.084	1.4	.084	2	U
Anthracene	.07	1.4	.07	2	U
Benzo(a)anthracene	.058	1.4	0.0817	2	F
Benzo(a)pyrene	.052	1.4	.052	2	U
Benzo(b)fluoranthene	.056	1.4	0.0766	2	F
Benzo(g,h,i)Perylene	.074	1.4	.074	2	U
Benzoic acid	.04	3.2	.04	2	M
Benzyl alcohol	.12	2.6	.12	2	R
Bis(2-Chloroethoxy)Methane	.094	1.4	.094	2	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.082	1.4	.082	2	R
Butylbenzylphthalate	.062	1.4	.062	2	M
Chrysene	.082	1.4	.082	2	U
Di-N-Butylphthalate	.062	1.4	.062	2	M
Di-n-octylphthalate	.062	1.4	.062	2	U
Dibenzo(a,h)Anthracene	.078	1.4	.078	2	U
Dibenzofuran	.086	1.4	.086	2	U
Diethylphthalate	.098	1.4	.098	2	U
Dimethylphthalate	.092	1.4	.092	2	U
Fluoranthene	.056	1.4	0.138	2	F
Fluorene	.088	1.4	.088	2	U
Hexachlorobenzene	.08	1.4	.08	2	U
Hexachlorobutadiene	.074	1.4	.074	2	U
Hexachlorocyclopentadiene	.174	1.4	.174	2	U
Hexachloroethane	.066	1.4	.066	2	R
Indeno(1,2,3-cd)pyrene	.072	1.4	.072	2	U
Isophorone	.086	1.4	.086	2	U
N-Nitroso-di-n-propylamine	.07	1.4	.07	2	R

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.096	1.4	.096	2	M
Naphthalene	.072	1.4	.072	2	U
Nitrobenzene	.068	1.4	.068	2	U
Pentachlorophenol	.04	6.6	.04	2	U
Phenanthrene	.086	1.4	.086	2	U
Phenol	.064	0.60	.064	2	U
Pyrene	.06	1.4	.06	2	U
bis(2-Chloroisopropyl)ether	.082	1.4	.082	2	R
bis(2-Ethylhexyl)phthalate	.078	1.4	.078	2	M
p-Nitrophenol	.114	3.2	.114	2	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	80.9	25 - 144	
2-Fluorobiphenyl	70.8	34 - 135	
2-Fluorophenol	15.5	25 - 135	*
Nitrobenzene-d5	77.1	25 - 135	
Phenol-d5	81.0	25 - 135	
p-Terphenyl-d14	75.7	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	M

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	M
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	M
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	M
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	.039	1	M
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	66.5	25 - 144	
2-Fluorobiphenyl	59.1	34 - 135	
2-Fluorophenol	46.1	25 - 135	
Nitrobenzene-d5	59.8	25 - 135	
Phenol-d5	64.4	25 - 135	
p-Terphenyl-d14	90.7	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: 813SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	.033	1	U
1,2-Dichlorobenzene	.033	0.70	.033	1	U
1,3-Dichlorobenzene	.032	0.70	.032	1	U
1,4-Dichlorobenzene	.034	0.70	.034	1	U
2,4,5-Trichlorophenol	.047	3.3	.047	1	U
2,4,6-Trichlorophenol	.042	0.30	.042	1	U
2,4-Dichlorophenol	.041	0.30	.041	1	U
2,4-Dimethylphenol	.037	0.30	.037	1	U
2,4-Dinitrophenol	.11	3.3	.11	1	R
2,4-Dinitrotoluene	.042	0.70	.042	1	U
2,6-Dinitrotoluene	.04	0.70	.04	1	U
2-Chloronaphthalene	.04	0.70	.04	1	U
2-Chlorophenol	.034	0.30	.034	1	U
2-Methylnaphthalene	.037	0.70	.037	1	U
2-Methylphenol	.063	0.30	.063	1	U
2-Nitroaniline	.046	3.3	.046	1	U
2-Nitrophenol	.032	0.30	.032	1	U
3,3'-Dichlorobenzidine	.15	1.3	.15	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	.072	1	U
4,6-Dinitro-2-methylphenol	.036	3.3	.036	1	U
4-Bromophenyl-phenylether	.038	0.70	.038	1	U
4-Chloro-3-methylphenol	.046	1.3	.046	1	U
4-Chloroaniline	.053	1.3	.053	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	.044	1	U
4-Methylphenol	.041	0.30	.041	1	U
4-Nitroaniline	.04	3.3	.04	1	R
Acenaphthene	.042	0.70	.042	1	U
Acenaphthylene	.042	0.70	.042	1	U
Anthracene	.035	0.70	.035	1	U
Benzo(a)anthracene	.029	0.70	.029	1	U
Benzo(a)pyrene	.026	0.70	.026	1	U
Benzo(b)fluoranthene	.028	0.70	.028	1	U
Benzo(g,h,i)Perylene	.037	0.70	.037	1	U
Benzoic acid	.02	1.6	.02	1	M
Benzyl alcohol	.06	1.3	.06	1	U
Bis(2-Chloroethoxy)Methane	.047	0.70	.047	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	.041	1	U
Butylbenzylphthalate	.031	0.70	.031	1	M
Chrysene	.041	0.70	.041	1	U
Di-N-Butylphthalate	.031	0.70	.031	1	M
Di-n-octylphthalate	.031	0.70	.031	1	U
Dibenzo(a,h)Anthracene	.039	0.70	.039	1	U
Dibenzofuran	.043	0.70	.043	1	U
Diethylphthalate	.049	0.70	.049	1	U
Dimethylphthalate	.046	0.70	.046	1	U
Fluoranthene	.028	0.70	.028	1	U
Fluorene	.044	0.70	.044	1	U
Hexachlorobenzene	.04	0.70	.04	1	U
Hexachlorobutadiene	.037	0.70	.037	1	U
Hexachlorocyclopentadiene	.087	0.70	.087	1	U
Hexachloroethane	.033	0.70	.033	1	U
Indeno(1,2,3-cd)pyrene	.036	0.70	.036	1	U
Isophorone	.043	0.70	.043	1	U
N-Nitroso-di-n-propylamine	.035	0.70	.035	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	.048	1	M
Naphthalene	.036	0.70	.036	1	U
Nitrobenzene	.034	0.70	.034	1	U
Pentachlorophenol	.02	3.3	.02	1	U
Phenanthrene	.043	0.70	.043	1	U
Phenol	.032	0.30	.032	1	U
Pyrene	.03	0.70	.03	1	U
bis(2-Chloroisopropyl)ether	.041	0.70	.041	1	U
bis(2-Ethylhexyl)phthalate	.039	0.70	0.0279	1	M
p-Nitrophenol	.057	1.6	.057	1	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	70.5	25 - 144	
2-Fluorobiphenyl	61.6	34 - 135	
2-Fluorophenol	47.3	25 - 135	
Nitrobenzene-d5	63.4	25 - 135	
Phenol-d5	68.5	25 - 135	
p-Terphenyl-d14	98.3	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	1.33	1	
1,2-Dichlorobenzene	.033	0.70	1.51	1	
1,3-Dichlorobenzene	.032	0.70	1.45	1	
1,4-Dichlorobenzene	.034	0.70	1.48	1	
2,4,5-Trichlorophenol	.047	3.3	1.47	1	
2,4,6-Trichlorophenol	.042	0.30	1.38	1	
2,4-Dichlorophenol	.041	0.30	1.50	1	
2,4-Dimethylphenol	.037	0.30	1.71	1	
2,4-Dinitrophenol	.11	3.3	1.43	1	R
2,4-Dinitrotoluene	.042	0.70	1.59	1	
2,6-Dinitrotoluene	.04	0.70	1.48	1	
2-Chloronaphthalene	.04	0.70	1.54	1	
2-Chlorophenol	.034	0.30	1.53	1	
2-Methylnaphthalene	.037	0.70	1.61	1	
2-Methylphenol	.063	0.30	1.68	1	
2-Nitroaniline	.046	3.3	1.90	1	
2-Nitrophenol	.032	0.30	1.47	1	
3,3'-Dichlorobenzidine	.15	1.3	1.99	1	M

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: RPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	1.53	1	
4,6-Dinitro-2-methylphenol	.036	3.3	1.58	1	
4-Bromophenyl-phenylether	.038	0.70	1.57	1	
4-Chloro-3-methylphenol	.046	1.3	1.67	1	
4-Chloroaniline	.053	1.3	1.49	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	1.56	1	
4-Methylphenol	.041	0.30	1.68	1	
4-Nitroaniline	.04	3.3	2.20	1	R
Acenaphthene	.042	0.70	1.79	1	
Acenaphthylene	.042	0.70	1.73	1	
Anthracene	.035	0.70	1.94	1	
Benzo(a)anthracene	.029	0.70	2.03	1	
Benzo(a)pyrene	.026	0.70	1.66	1	
Benzo(b)fluoranthene	.028	0.70	1.62	1	
Benzo(g,h,i)Perylene	.037	0.70	1.73	1	
Benzoic acid	.02	1.6	0.696	1	M
Benzyl alcohol	.06	1.3	1.50	1	
Bis(2-Chloroethoxy)Methane	.047	0.70	1.59	1	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	2.24	1	
Butylbenzylphthalate	.031	0.70	2.24	1	M
Chrysene	.041	0.70	2.07	1	
Di-N-Butylphthalate	.031	0.70	2.37	1	M
Di-n-octylphthalate	.031	0.70	1.73	1	
Dibenzo(a,h)Anthracene	.039	0.70	1.86	1	
Dibenzofuran	.043	0.70	1.68	1	
Diethylphthalate	.049	0.70	1.86	1	
Dimethylphthalate	.046	0.70	1.55	1	
Fluoranthene	.028	0.70	2.07	1	
Fluorene	.044	0.70	1.73	1	
Hexachlorobenzene	.04	0.70	1.63	1	
Hexachlorobutadiene	.037	0.70	1.36	1	
Hexachlorocyclopentadiene	.087	0.70	1.07	1	
Hexachloroethane	.033	0.70	1.67	1	
Indeno(1,2,3-cd)pyrene	.036	0.70	1.79	1	
Isophorone	.043	0.70	1.67	1	
N-Nitroso-di-n-propylamine	.035	0.70	1.95	1	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-99

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	1.70	1	M
Naphthalene	.036	0.70	1.52	1	
Nitrobenzene	.034	0.70	1.53	1	
Pentachlorophenol	.02	3.3	1.54	1	
Phenanthrene	.043	0.70	1.89	1	
Phenol	.032	0.30	1.60	1	
Pyrene	.03	0.70	2.09	1	
bis(2-Chloroisopropyl)ether	.041	0.70	2.24	1	
bis(2-Ethylhexyl)phthalate	.039	0.70	2.22	1	M
p-Nitrophenol	.057	1.6	2.16	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	79.3	25 - 144	
2-Fluorobiphenyl	72.4	34 - 135	
2-Fluorophenol	37.8	25 - 135	
Nitrobenzene-d5	79.4	25 - 135	
Phenol-d5	80.7	25 - 135	
p-Terphenyl-d14	98.6	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	.033	0.70	1.56	1	
1,2-Dichlorobenzene	.033	0.70	1.69	1	
1,3-Dichlorobenzene	.032	0.70	1.64	1	
1,4-Dichlorobenzene	.034	0.70	1.66	1	
2,4,5-Trichlorophenol	.047	3.3	1.76	1	
2,4,6-Trichlorophenol	.042	0.30	1.64	1	
2,4-Dichlorophenol	.041	0.30	1.72	1	
2,4-Dimethylphenol	.037	0.30	1.97	1	
2,4-Dinitrophenol	.11	3.3	1.72	1	R
2,4-Dinitrotoluene	.042	0.70	1.86	1	
2,6-Dinitrotoluene	.04	0.70	1.72	1	
2-Chloronaphthalene	.04	0.70	1.74	1	
2-Chlorophenol	.034	0.30	1.77	1	
2-Methylnaphthalene	.037	0.70	1.90	1	
2-Methylphenol	.063	0.30	1.90	1	
2-Nitroaniline	.046	3.3	2.07	1	
2-Nitrophenol	.032	0.30	1.68	1	
3,3'-Dichlorobenzidine	.153	1.3	0	1	M

Comments:

507 553

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	.072	3.3	1.67	1	
4,6-Dinitro-2-methylphenol	.036	3.3	1.89	1	
4-Bromophenyl-phenylether	.038	0.70	1.89	1	
4-Chloro-3-methylphenol	.046	1.3	1.94	1	
4-Chloroaniline	.053	1.3	0.142	1	M
4-Chlorophenyl-phenyl ether	.044	0.70	1.81	1	
4-Methylphenol	.041	0.30	1.88	1	
4-Nitroaniline	.04	3.3	0.746	1	R
Acenaphthene	.042	0.70	2.05	1	
Acenaphthylene	.042	0.70	1.95	1	
Anthracene	.035	0.70	2.43	1	
Benzo(a)anthracene	.029	0.70	2.39	1	
Benzo(a)pyrene	.026	0.70	1.95	1	
Benzo(b)fluoranthene	.028	0.70	1.81	1	
Benzo(g,h,i)Perylene	.037	0.70	2.03	1	
Benzoic acid	.02	1.6	1.01	1	M
Benzyl alcohol	.06	1.3	1.67	1	
Bis(2-Chloroethoxy)Methane	.047	0.70	1.85	1	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bis(2-Chloroethyl)ether	.041	0.70	2.56	1	
Butylbenzylphthalate	.031	0.70	2.75	1	M
Chrysene	.041	0.70	2.45	1	
Di-N-Butylphthalate	.031	0.70	3.00	1	M
Di-n-octylphthalate	.031	0.70	1.92	1	
Dibenzo(a,h)Anthracene	.039	0.70	2.24	1	
Dibenzofuran	.043	0.70	1.92	1	
Diethylphthalate	.049	0.70	2.14	1	
Dimethylphthalate	.046	0.70	1.79	1	
Fluoranthene	.028	0.70	2.43	1	
Fluorene	.044	0.70	2.05	1	
Hexachlorobenzene	.04	0.70	1.97	1	
Hexachlorobutadiene	.037	0.70	1.56	1	
Hexachlorocyclopentadiene	.087	0.70	1.27	1	
Hexachloroethane	.033	0.70	1.90	1	
Indeno(1,2,3-cd)pyrene	.036	0.70	2.16	1	
Isophorone	.043	0.70	1.90	1	
N-Nitroso-di-n-propylamine	.035	0.70	2.18	1	

Comments:

507-5550

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270C Preparatory Method: 3550B AAB # : WG60163

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS3 23-JUN-1999

Date Received: 19-JUN-99 Date Extracted: 23-JUN-99 Date Analyzed: 26-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
N-Nitrosodiphenylamine	.048	0.70	1.23	1	M
Naphthalene	.036	0.70	1.74	1	
Nitrobenzene	.034	0.70	1.76	1	
Pentachlorophenol	.02	3.3	1.95	1	
Phenanthrene	.043	0.70	2.37	1	
Phenol	.032	0.30	1.81	1	
Pyrene	.03	0.70	2.58	1	
bis(2-Chloroisopropyl)ether	.041	0.70	2.56	1	
bis(2-Ethylhexyl)phthalate	.039	0.70	2.68	1	M
p-Nitrophenol	.057	1.6	2.52	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	95.4	25 - 144	
2-Fluorobiphenyl	82.4	34 - 135	
2-Fluorophenol	38.4	25 - 135	
Nitrobenzene-d5	90.6	25 - 135	
Phenol-d5	90.1	25 - 135	
p-Terphenyl-d14	123	32 - 136	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

Post-Excavation
VOCs Data

FPM

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000213	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	0.000427	1	F
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	0.000798	1	F
Toluene	.00013	0.005	0.000517	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.000247	1	F
n-Butylbenzene	.00012	0.005	0.000225	1	F
n-Propylbenzene	.00012	0.002	0.000258	1	F

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0300BA Lab Sample ID: L9906513-04 Matrix: Soil

% Solids: 89 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	0.000697	1	F
tert-Butylbenzene	.00012	0.007	0.000573	1	F
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	111	52 - 149	
4-Bromofluorobenzene	100	65 - 135	
Dibromofluoromethane	97.5	65 - 135	
Toluene-d8	95.6	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000556	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	0.000185	1	F
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kamron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	0.00238	1	F
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000852	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.000457	1	F
n-Butylbenzene	.00012	0.005	0.00115	1	F
n-Propylbenzene	.00012	0.002	0.00201	1	F

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0410BA Lab Sample ID: L9906513-06 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	0.00183	1	F
tert-Butylbenzene	.00012	0.007	0.00272	1	F
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	52 - 149	
4-Bromofluorobenzene	107	65 - 135	
Dibromofluoromethane	93.6	65 - 135	
Toluene-d8	95.3	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000188	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	0.000153	1	F
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000894	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0506BA Lab Sample ID: L9906513-07 Matrix: Soil

% Solids: 85 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	52 - 149	
4-Bromofluorobenzene	95.7	65 - 135	
Dibromofluoromethane	93.4	65 - 135	
Toluene-d8	94.2	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.001	0.015	.001	5	U
1,1,1-Trichloroethane	.0009	0.02	.0009	5	U
1,1,2,2-Tetrachloroethane	.0006	0.01	.0006	5	U
1,1,2-Trichloroethane	.00085	0.025	.00085	5	U
1,1-Dichloroethane	.00075	0.01	.00075	5	U
1,1-Dichloroethene	.0006	0.03	.0006	5	U
1,1-Dichloropropene	.00038	0.025	.00038	5	U
1,2,3-Trichlorobenzene	.00115	0.01	.00115	5	M
1,2,3-Trichloropropane	.00095	0.10	.00095	5	U
1,2,4-Trichlorobenzene	.00135	0.01	.00135	5	M
1,2,4-Trimethylbenzene	.00065	0.035	.00065	5	U
1,2-Dibromo-3-chloropropane	.00175	0.05	.00175	5	U
1,2-Dibromoethane	.0006	0.015	.0006	5	U
1,2-Dichlorobenzene	.00075	0.01	.00075	5	U
1,2-Dichloroethane	.0008	0.015	.0008	5	U
1,2-Dichloropropane	.00485	0.01	.00485	5	U
1,3,5-Trimethylbenzene	.00046	0.015	.00046	5	U
1,3-Dichlorobenzene	.00095	0.03	.00095	5	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.0006	0.01	.0006	5	U
1,4-Dichlorobenzene	.00075	0.01	.00075	5	U
1-Chlorohexane	.00022	0.015	.00022	5	U
2,2-Dichloropropane	.0006	0.10	.0006	5	U
2-Chlorotoluene	.0007	0.01	.0007	5	U
4-Chlorotoluene	.0007	0.015	.0007	5	U
Benzene	.0006	0.01	.0006	5	U
Bromobenzene	.00075	0.01	.00075	5	U
Bromochloromethane	.00055	0.01	.00055	5	U
Bromodichloromethane	.0006	0.02	.0006	5	U
Bromoform	.0008	0.03	.0008	5	M
Bromomethane	.00175	0.025	.00175	5	R
Carbon tetrachloride	.00085	0.05	.00085	5	U
Chlorobenzene	.0009	0.01	.0009	5	U
Chloroethane	.0023	0.025	.0023	5	U
Chloroform	.0008	0.01	.0008	5	U
Chloromethane	.0017	0.035	.0017	5	U
Dibromochloromethane	.0007	0.015	.0007	5	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00075	0.05	.00075	5	U
Dichlorodifluoromethane	.00155	0.025	.00155	5	U
Ethylbenzene	.0007	0.015	.0007	5	U
Hexachlorobutadiene	.0013	0.025	.0013	5	U
Isopropylbenzene	.000375	0.04	0.0312	5	J
Methylene chloride	.00355	0.01	.00355	5	U
Naphthalene	.0045	0.01	.0045	5	M
Styrene	.00037	0.01	.00037	5	U
Tetrachloroethene	.00105	0.035	.00105	5	U
Toluene	.00065	0.025	0.00414	5	F
Trichloroethene	.0009	0.05	.0009	5	U
Trichlorofluoromethane	.0014	0.02	.0014	5	R
Vinyl chloride	.00195	0.045	.00195	5	U
cis-1,2-Dichloroethene	.00047	0.03	.00047	5	U
cis-1,3-Dichloropropene	.000485	0.025	.000485	5	U
m-,p-Xylene	.001	0.025	.001	5	U
n-Butylbenzene	.0006	0.025	.0006	5	U
n-Propylbenzene	.0006	0.01	.0006	5	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0606BA Lab Sample ID: L9906513-09 Matrix: Soil

% Solids: 84 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0005	0.025	.0005	5	U
p-Isopropyltoluene	.00042	0.03	.00042	5	U
sec-Butylbenzene	.00055	0.035	0.0143	5	F
tert-Butylbenzene	.0006	0.035	0.0842	5	J
trans-1,2-Dichloroethene	.00042	0.015	.00042	5	U
trans-1,3-Dichloropropene	.0005	0.025	.0005	5	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	101	52 - 149	
4-Bromofluorobenzene	179	65 - 135	*
Dibromofluoromethane	90.5	65 - 135	
Toluene-d8	100	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000195	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	0.000183	1	F
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000854	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	0.000415	1	F
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0610BA Lab Sample ID: L9906513-08 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	0.00101	1	F
tert-Butylbenzene	.00012	0.007	0.00487	1	F
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	109	52 - 149	
4-Bromofluorobenzene	105	65 - 135	
Dibromofluoromethane	93.8	65 - 135	
Toluene-d8	95.2	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000229	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000892	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.000265	1	F
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0706BB Lab Sample ID: L9906513-10 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	103	52 - 149	
4-Bromofluorobenzene	92.9	65 - 135	
Dibromofluoromethane	91.1	65 - 135	
Toluene-d8	93.9	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	.00013	1	U
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	0.00511	1	F
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000784	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0810BA Lab Sample ID: L9906513-11 Matrix: Soil

% Solids: 74 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	0.00749	1	F
sec-Butylbenzene	.00011	0.007	0.0117	1	J
tert-Butylbenzene	.00012	0.007	0.0123	1	J
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	111	52 - 149	
4-Bromofluorobenzene	290	65 - 135	*
Dibromofluoromethane	86.4	65 - 135	
Toluene-d8	130	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000253	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	0.000172	1	F
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000701	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	.0002	1	U
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0910BB Lab Sample ID: L9906513-12 Matrix: Soil

% Solids: 87 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	100	52 - 149	
4-Bromofluorobenzene	93.7	65 - 135	
Dibromofluoromethane	88.5	65 - 135	
Toluene-d8	96.0	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000439	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	.00014	1	U
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	0.00246	1	F
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000549	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.000488	1	F
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1010BB Lab Sample ID: L9906513-13 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 28-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	.0001	1	U
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	0.00256	1	F
tert-Butylbenzene	.00012	0.007	0.00201	1	F
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	52 - 149	
4-Bromofluorobenzene	115	65 - 135	
Dibromofluoromethane	91.5	65 - 135	
Toluene-d8	100	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.00017	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: _____ Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	0.000955	1	F
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.00092	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.000614	1	F
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BB Lab Sample ID: L9906513-14 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: _____ Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	0.00017	1	F
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	52 - 149	
4-Bromofluorobenzene	93.8	65 - 135	
Dibromofluoromethane	94.5	65 - 135	
Toluene-d8	93.7	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	.0002	1	U
1,1,1-Trichloroethane	.00018	0.004	.00018	1	U
1,1,2,2-Tetrachloroethane	.00012	0.002	.00012	1	U
1,1,2-Trichloroethane	.00017	0.005	.00017	1	U
1,1-Dichloroethane	.00015	0.002	.00015	1	U
1,1-Dichloroethene	.00012	0.006	.00012	1	U
1,1-Dichloropropene	.000076	0.005	.000076	1	U
1,2,3-Trichlorobenzene	.00023	0.002	.00023	1	M
1,2,3-Trichloropropane	.00019	0.02	.00019	1	U
1,2,4-Trichlorobenzene	.00027	0.002	.00027	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.000148	1	F
1,2-Dibromo-3-chloropropane	.00035	0.01	.00035	1	U
1,2-Dibromoethane	.00012	0.003	.00012	1	U
1,2-Dichlorobenzene	.00015	0.002	.00015	1	U
1,2-Dichloroethane	.00016	0.003	.00016	1	U
1,2-Dichloropropane	.00097	0.002	.00097	1	U
1,3,5-Trimethylbenzene	.000092	0.003	.000092	1	U
1,3-Dichlorobenzene	.00019	0.006	.00019	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	.00012	1	U
1,4-Dichlorobenzene	.00015	0.002	.00015	1	U
1-Chlorohexane	.000044	0.003	.000044	1	U
2,2-Dichloropropane	.00012	0.02	.00012	1	U
2-Chlorotoluene	.00014	0.002	.00014	1	U
4-Chlorotoluene	.00014	0.003	.00014	1	U
Benzene	.00012	0.002	.00012	1	U
Bromobenzene	.00015	0.002	.00015	1	U
Bromochloromethane	.00011	0.002	.00011	1	U
Bromodichloromethane	.00012	0.004	.00012	1	U
Bromoform	.00016	0.006	.00016	1	M
Bromomethane	.00035	0.005	.00035	1	R
Carbon tetrachloride	.00017	0.01	.00017	1	U
Chlorobenzene	.00018	0.002	.00018	1	U
Chloroethane	.00046	0.005	.00046	1	U
Chloroform	.00016	0.002	.00016	1	U
Chloromethane	.00034	0.007	.00034	1	U
Dibromochloromethane	.00014	0.003	.00014	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	.00015	1	U
Dichlorodifluoromethane	.00031	0.005	.00031	1	U
Ethylbenzene	.00014	0.003	0.00632	1	
Hexachlorobutadiene	.00026	0.005	.00026	1	U
Isopropylbenzene	.000075	0.008	.000075	1	U
Methylene chloride	.00071	0.002	.00071	1	U
Naphthalene	.0009	0.002	.0009	1	M
Styrene	.000074	0.002	.000074	1	U
Tetrachloroethene	.00021	0.007	.00021	1	U
Toluene	.00013	0.005	0.000841	1	F
Trichloroethene	.00018	0.01	.00018	1	U
Trichlorofluoromethane	.00028	0.004	.00028	1	R
Vinyl chloride	.00039	0.009	.00039	1	U
cis-1,2-Dichloroethene	.000094	0.006	.000094	1	U
cis-1,3-Dichloropropene	.000097	0.005	.000097	1	U
m-,p-Xylene	.0002	0.005	0.003	1	F
n-Butylbenzene	.00012	0.005	.00012	1	U
n-Propylbenzene	.00012	0.002	.00012	1	U

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BC/DUP Lab Sample ID: L9906513-15 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	0.000807	1	F
p-Isopropyltoluene	.000084	0.006	.000084	1	U
sec-Butylbenzene	.00011	0.007	.00011	1	U
tert-Butylbenzene	.00012	0.007	.00012	1	U
trans-1,2-Dichloroethene	.000084	0.003	.000084	1	U
trans-1,3-Dichloropropene	.0001	0.005	.0001	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	108	52 - 149	
4-Bromofluorobenzene	93.4	65 - 135	
Dibromofluoromethane	94.7	65 - 135	
Toluene-d8	93.8	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	0.0189	1	
1,1,1-Trichloroethane	.00018	0.004	0.0264	1	
1,1,2,2-Tetrachloroethane	.00012	0.002	0.0171	1	
1,1,2-Trichloroethane	.00017	0.005	0.0202	1	
1,1-Dichloroethane	.00015	0.002	0.0248	1	
1,1-Dichloroethene	.00012	0.006	0.0280	1	
1,1-Dichloropropene	.000076	0.005	0.0302	1	
1,2,3-Trichlorobenzene	.00023	0.002	0.0103	1	M
1,2,3-Trichloropropane	.00019	0.02	0.0199	1	
1,2,4-Trichlorobenzene	.00027	0.002	0.0112	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.0181	1	
1,2-Dibromo-3-chloropropane	.00035	0.01	0.0153	1	
1,2-Dibromoethane	.00012	0.003	0.0197	1	
1,2-Dichlorobenzene	.00015	0.002	0.0161	1	
1,2-Dichloroethane	.00016	0.003	0.0234	1	
1,2-Dichloropropane	.00097	0.002	0.0218	1	
1,3,5-Trimethylbenzene	.000092	0.003	0.0203	1	
1,3-Dichlorobenzene	.00019	0.006	0.0169	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	0.0200	1	
1,4-Dichlorobenzene	.00015	0.002	0.0163	1	
1-Chlorohexane	.000044	0.003	0.0230	1	
2,2-Dichloropropane	.00012	0.02	0.0248	1	
2-Chlorotoluene	.00014	0.002	0.0192	1	
4-Chlorotoluene	.00014	0.003	0.0196	1	
Benzene	.00012	0.002	0.0236	1	
Bromobenzene	.00015	0.002	0.0183	1	
Bromochloromethane	.00011	0.002	0.0234	1	
Bromodichloromethane	.00012	0.004	0.0215	1	
Bromoform	.00016	0.006	0.0126	1	M
Bromomethane	.00035	0.005	0.0348	1	R
Carbon tetrachloride	.00017	0.01	0.0243	1	
Chlorobenzene	.00018	0.002	0.0211	1	
Chloroethane	.00046	0.005	0.0277	1	
Chloroform	.00016	0.002	0.0248	1	
Chloromethane	.00034	0.007	0.0226	1	
Dibromochloromethane	.00014	0.003	0.0181	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	0.0220	1	
Dichlorodifluoromethane	.00031	0.005	0.0305	1	
Ethylbenzene	.00014	0.003	0.0264	1	
Hexachlorobutadiene	.00026	0.005	0.0177	1	
Isopropylbenzene	.000075	0.008	0.0224	1	
Methylene chloride	.00071	0.002	0.0234	1	
Naphthalene	.0009	0.002	0.0126	1	M
Styrene	.000074	0.002	0.0202	1	
Tetrachloroethene	.00021	0.007	0.0239	1	
Toluene	.00013	0.005	0.0227	1	
Trichloroethene	.00018	0.01	0.0257	1	
Trichlorofluoromethane	.00028	0.004	0.0180	1	R
Vinyl chloride	.00039	0.009	0.0320	1	
cis-1,2-Dichloroethene	.000094	0.006	0.0236	1	
cis-1,3-Dichloropropene	.000097	0.005	0.0208	1	
m-,p-Xylene	.0002	0.005	0.0464	1	
n-Butylbenzene	.00012	0.005	0.0196	1	
n-Propylbenzene	.00012	0.002	0.0215	1	

Comments:

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ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BS/MS Lab Sample ID: L9906513-16 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	0.0220	1	
p-Isopropyltoluene	.000084	0.006	0.0195	1	
sec-Butylbenzene	.00011	0.007	0.0206	1	
tert-Butylbenzene	.00012	0.007	0.0214	1	
trans-1,2-Dichloroethene	.000084	0.003	0.0273	1	
trans-1,3-Dichloropropene	.0001	0.005	0.0187	1	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	52 - 149	
4-Bromofluorobenzene	93.6	65 - 135	
Dibromofluoromethane	94.1	65 - 135	
Toluene-d8	94.0	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: _____ Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.0002	0.003	0.0184	1	
1,1,1-Trichloroethane	.00018	0.004	0.0259	1	
1,1,2,2-Tetrachloroethane	.00012	0.002	0.0159	1	
1,1,2-Trichloroethane	.00017	0.005	0.0185	1	
1,1-Dichloroethane	.00015	0.002	0.0234	1	
1,1-Dichloroethene	.00012	0.006	0.0268	1	
1,1-Dichloropropene	.000076	0.005	0.0291	1	
1,2,3-Trichlorobenzene	.00023	0.002	0.0113	1	M
1,2,3-Trichloropropane	.00019	0.02	0.0181	1	
1,2,4-Trichlorobenzene	.00027	0.002	0.0119	1	M
1,2,4-Trimethylbenzene	.00013	0.007	0.0179	1	
1,2-Dibromo-3-chloropropane	.00035	0.01	0.0146	1	
1,2-Dibromoethane	.00012	0.003	0.0180	1	
1,2-Dichlorobenzene	.00015	0.002	0.0160	1	
1,2-Dichloroethane	.00016	0.003	0.0216	1	
1,2-Dichloropropane	.00097	0.002	0.0205	1	
1,3,5-Trimethylbenzene	.000092	0.003	0.0200	1	
1,3-Dichlorobenzene	.00019	0.006	0.0166	1	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.00012	0.002	0.0183	1	
1,4-Dichlorobenzene	.00015	0.002	0.0162	1	
1-Chlorohexane	.000044	0.003	0.0225	1	
2,2-Dichloropropane	.00012	0.02	0.0243	1	
2-Chlorotoluene	.00014	0.002	0.0190	1	
4-Chlorotoluene	.00014	0.003	0.0190	1	
Benzene	.00012	0.002	0.0223	1	
Bromobenzene	.00015	0.002	0.0176	1	
Bromochloromethane	.00011	0.002	0.0215	1	
Bromodichloromethane	.00012	0.004	0.0204	1	
Bromoform	.00016	0.006	0.0120	1	M
Bromomethane	.00035	0.005	0.0320	1	R
Carbon tetrachloride	.00017	0.01	0.0245	1	
Chlorobenzene	.00018	0.002	0.0203	1	
Chloroethane	.00046	0.005	0.0175	1	
Chloroform	.00016	0.002	0.0232	1	
Chloromethane	.00034	0.007	0.0210	1	
Dibromochloromethane	.00014	0.003	0.0175	1	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.00015	0.01	0.0203	1	
Dichlorodifluoromethane	.00031	0.005	0.0291	1	
Ethylbenzene	.00014	0.003	0.0266	1	
Hexachlorobutadiene	.00026	0.005	0.0172	1	
Isopropylbenzene	.000075	0.008	0.0219	1	
Methylene chloride	.00071	0.002	0.0219	1	
Naphthalene	.0009	0.002	0.0132	1	M
Styrene	.000074	0.002	0.0195	1	
Tetrachloroethene	.00021	0.007	0.0234	1	
Toluene	.00013	0.005	0.0215	1	
Trichloroethene	.00018	0.01	0.0245	1	
Trichlorofluoromethane	.00028	0.004	0.0169	1	R
Vinyl chloride	.00039	0.009	0.0305	1	
cis-1,2-Dichloroethene	.000094	0.006	0.0219	1	
cis-1,3-Dichloropropene	.000097	0.005	0.0195	1	
m-,p-Xylene	.0002	0.005	0.0450	1	
n-Butylbenzene	.00012	0.005	0.0192	1	
n-Propylbenzene	.00012	0.002	0.0212	1	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU1110BD/MSD Lab Sample ID: L9906513-17 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPMS6 24-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 27-JUN-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.0001	0.005	0.0214	1	
p-Isopropyltoluene	.000084	0.006	0.0195	1	
sec-Butylbenzene	.00011	0.007	0.0205	1	
tert-Butylbenzene	.00012	0.007	0.0209	1	
trans-1,2-Dichloroethene	.000084	0.003	0.0261	1	
trans-1,3-Dichloropropene	.0001	0.005	0.0172	1	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	52 - 149	
4-Bromofluorobenzene	93.8	65 - 135	
Dibromofluoromethane	94.9	65 - 135	
Toluene-d8	94.9	65 - 135	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK 1 Lab Sample ID: L9906513-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	U
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	U
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK 1 Lab Sample ID: L9906513-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	U
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	U
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK 1 Lab Sample ID: L9906513-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	U
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	0.240	1	F
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	U
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG60248

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK 1 Lab Sample ID: L9906513-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 03-JUN-1999

Date Received: 19-JUN-99 Date Extracted: Date Analyzed: 29-JUN-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
p-Isopropyltoluene	.22	1.2	.22	1	U
sec-Butylbenzene	.25	1.3	.25	1	U
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	62 - 139	
4-Bromofluorobenzene	112	75 - 125	
Dibromofluoromethane	103	75 - 125	
Toluene-d8	103	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

Pre-Excavation QA/QC

FPM

Chain of Custody Forms

COC NO 100243

109 Starlite Park
Marietta, OH. 45750

KEMRON ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Fanning, Phillips & Molnar

Project Contact: ANNE LE

Contact Phone #: (210) 524-7737

Turn Around Requirements: AS PER CONTRACT

Location: CARSWELL AFB

Project #: 444-98-23

Project Name: CARSWELL AFB/ NAS JRB

Sampler (print): Gilbert Gabaldon

Signature:

Program: ☐ NPDES ☐ AFCEE ☐ RCRA ☐ USACE ☐ Other

Mail Report To:

Comments: ANALYZE

Sample I.D. No	Location I.D.	SBD	SED	Date	Time	Comp*	Grab	NUMBER of CONTAINERS	SW6020 ARSENIC	SW6010A CADMIUM	SW 8270B SVOCs	SW 6010A BARIUM	SW 6010A LEAD	SPLP SVOCs per aqueous SOP	SPLP Lead per aqueous SOP dated 5/21/99
S13SMW0704AC/SDB-SB01		2	4	4/1/99	1415	X		2	X	X					✓
S13SUN0104AD/UNDI		2	4	4/1/99	1355	X		2	X	X	X	X			✓
S13SUN0404AA/UNDI		2	4	4/1/99	1443	X		2	X		X	X			✓
S13SMW0704AA/SDB-SB01		2	4	4/1/99	1415	X		2	X	X					✓
S13SSB0204AA/SDB-SB02		2	4	4/1/99	1325	X		2	X	X					✓
S13SFU0108AA/FUSD1		6	8	4/1/99	0930	X		2	X	X	X	X			✓
S13SOW0204AA/OWSS02		2	4	4/1/99	1310	X		2	X						✓
A0SS0510ABE/0739055A		0	2	4/1/99	0730	X		2			X		X		✓
S13SFU0208AA/FUSD2		10	8	4/1/99	1015	X		2	X	X	X	X			✓
S13SFU0108AD/FUSD1		6	8	4/1/99	0930	X		2	X	X	X	X			✓
S13SUN0104AS/UNDI		2	4	4/1/99	1355	X		2	X		X	X			✓
S13SSB0304AD/SDB-SB03		2	4	4/1/99	1145	X		2		X					✓
S13SSB0304AS/SDB-SB03		2	4	4/1/99	1145	X		2		X					✓
S13SFU0108AS/FEUSD1		6	8	4/1/99	0930	X		2	X	X	X	X			✓
S13SFU0208AC/FUSD2		6	8	4/1/99	1015	X		2	X	X	X	X			✓
S13SWP0204ABN/WPD2		0	2	4/1/99	1103	X		2	X			X			✓
S13SWP0204AC/WPD2		2	4	4/1/99	1045	X		2	X			X			✓
S13SWP0202ABN/WPD2		0	2	4/1/99	1058	X		2	X			X			✓
S13SOW0104AA/OWSS01		2	4	4/1/99	1115	X		2	X						✓
S13S0515ABE/0739055A		0	2	4/1/99	0733	X		2			X		X		✓

ERPIMS REQUIRED FIELDS

BARCODE	COOLER ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
FRI	A	NA	010499	NA
SDI	A			
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
BDI	A			
MSI	A			
SDI	A			
MSI	A			
BDI	A			
FRI	A	NA	010499	NA
NI	A	NA	010499	NA
FRI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA
NI	A	NA	010499	NA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	4/1/99	1700	
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)

Relinquished by: (Signature) | Date | Time | Received by: (Signature)

Date	Time	Cooler Temp in °C	Remarks:
4/2/99	1000	4.0	1

* Homogenize all composite samples prior to analysis

0507 615

Metals QA/QC

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B** AAB # : **WG55724**

Lab Name : **Kemron Environmental Services** Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB** Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SFU0108AA	L9905026-01
S13SFU0108AA/MS	L9905026-02
S13SFU0108AA/MSD	L9905026-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: _____ Name: **Dennis S. Tepe**

Date: **06-MAY-99** Title: **Laboratory Manager**

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA Lab Sample ID: L9905026-01 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	3.6	1	F
Barium, Total	.18	1.0	87.1	1	M
Cadmium, Total	.031	0.50	0.26	1	F

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MS Lab Sample ID: L9905026-02 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	26.8	1	
Barium, Total	.18	1.0	141.	1	M
Cadmium, Total	.031	0.50	3.48	1	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55724

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0108AA/MSD Lab Sample ID: L9905026-03 Matrix: Soil

% Solids: 87 Initial Calibration ID: IRIS-ICP 08-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 08-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	26.8	1	
Barium, Total	.18	1.0	128.	1	M
Cadmium, Total	.031	0.50	3.56	1	

Comments:

507 621

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 8-Apr-99 Initial Calibration ID: IRIS-ICP 08-APR-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	0.0208	0.4	0.0458	10	0.5914	20	1.1724	40	2.4323	0.9997	
Cadmium	0	0.0874	0.05	0.1373	1.25	1.5478	2.5	3.0518	5	6.1473	0.9999	
Lead	0	-0.0312	0.5	0.027	12.5	1.1786	25	2.3906	50	4.8812	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3A

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0

Instrument ID: IRIS-ICP Date of Calibration: 8-Apr-99 Initial Calibration ID: IRIS-ICP 08-APR-199

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Barium	0	0.0623	0.5	3.2718	1	6.7955	25	171.48	50	353.99	100	709.89	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0645;v1.0;12/1/97

AFCEE FORM I-3B

507 623 0c

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG55724

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 08-APR-1999

2nd Source ID: ALT IRIS-ICP 08-APR-1999

ICV ID: ICV IRIS-ICP 08-APR-1999

CCV #1 ID: *CCV1 IRIS-ICP 08-APR-1999*

CCV #2 ID *CCV2 IRIS-ICP 08-APR-1999*

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	20	20.2	1	20	20.2000	1	20	20.205	1.02	20.52	2.60	
Barium	50	49.65	-0.70	50	49.65	-0.70	50	50.655	1.31	51.04	2.08	
Cadmium	2.5	2.525	1	2.5	2.525	1	2.5	2.5405	1.62	2.595	3.80	
Lead	25	25.245	0.98	25	25.245	0.98	25	25.66	2.64	26.02	4.08	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1.0,12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG55724

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 08-APR-1999

2nd Source ID: ALT IRIS-ICP 08-APR-1999

ICV ID: ICV IRIS-ICP 08-APR-1999

CCV #3 ID: CCV3 IRIS-ICP 08-APR-1999

CCV #2 ID:

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 0	%D	Q
Arsenic	20	20.2	1	20	20.2000	1	20	20.56	2.80			
Barium	50	49.65	-0.70	50	49.65	-0.70	50	51.885	3.77			
Cadmium	2.5	2.525	1	2.5	2.525	1	2.5	2.625	5.00			
Lead	25	25.245	0.98	25	25.245	0.98	25	26.235	4.94			

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845 v1.0 12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 08-APR-1999 Initial Calibration ID: IRIS-ICP 08-APR-1999

CCB #1 ID CCB1 IRIS-ICP 08-APR-1 CCB #2 ID: CCB2 IRIS-ICP 08-APR-199 CCB #3 ID: CCB3 IRIS-ICP 08-APR-1

Method Blank ID: WG55517-04

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	0.174	0.03500	0.139	0.2435	0.03500	5	
Barium	0.003	0.001	0.008	0.0045	0.001	1	
Cadmium	0.004	0.0035	0.009	0.0105	0.00500	0.5	
Lead	0.10500	0.07500	0.043	0.107	0.031	1.5	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG55724

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55517-05

Units: mg/kg

Initial Calibration IRIS-IC 08-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	20	23	115	75 - 125	
Barium, Total	50	56.1	112.2	75 - 125	
Cadmium, Total	2.5	2.8	112	75 - 125	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 7

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 6010B AAB # : WG55724

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 87

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration IRIS-ICP 08-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Arsenic, Total	3.7	23	26.4	98.7	26.4	98.7	0	75 - 125	20	
Barium, Total	87	57.5	141	93.9	128	71.3	10.3	75 - 125	20	*
Cadmium, Total	0.26	2.87	3.22	103.1	3.33	107	3.5	75 - 125	20	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B AAB#: WG55724

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SFU0108AA	1-Apr-99	2-Apr-99	8-Apr-99	180	7	
S13SFU0108AA/MS	1-Apr-99	2-Apr-99	8-Apr-99	180	7	
S13SFU0108AA/MSD	1-Apr-99	2-Apr-99	8-Apr-99	180	7	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	8-Apr-99	10:09	8-Apr-99	
S1	8-Apr-99	10:12	8-Apr-99	
S2	8-Apr-99	10:16	8-Apr-99	
S3	8-Apr-99	10:19	8-Apr-99	
S4	8-Apr-99	10:23	8-Apr-99	
S5	8-Apr-99	10:26	8-Apr-99	
ICV IRIS-ICP 08-APR-1999	8-Apr-99	10:34	8-Apr-99	
ICB IRIS-ICP 08-APR-1999	8-Apr-99	10:44	8-Apr-99	
ICSA	8-Apr-99	10:47	8-Apr-99	
ICSAB	8-Apr-99	10:51	8-Apr-99	
CCV1 IRIS-ICP 08-APR-1999	8-Apr-99	10:54	8-Apr-99	
CCB1 IRIS-ICP 08-APR-1999	8-Apr-99	11:02	8-Apr-99	
WG55517-04	8-Apr-99	11:07	8-Apr-99	
WG55517-05	8-Apr-99	11:10	8-Apr-99	
NON-AFCEE	8-Apr-99	11:14	8-Apr-99	
NON-AFCEE	8-Apr-99	11:17	8-Apr-99	
NON-AFCEE	8-Apr-99	11:21	8-Apr-99	
NON-AFCEE	8-Apr-99	11:24	8-Apr-99	
S13SFU0108AA	8-Apr-99	11:27	8-Apr-99	
S13SFU0108AA/MS	8-Apr-99	11:31	8-Apr-99	
S13SFU0108AA/MSD	8-Apr-99	11:34	8-Apr-99	
NON-AFCEE	8-Apr-99	11:38	8-Apr-99	
CCV2 IRIS-ICP 08-APR-1999	8-Apr-99	11:42	8-Apr-99	
CCB2 IRIS-ICP 08-APR-1999	8-Apr-99	11:48	8-Apr-99	

Comments:

AFCEE FORM I-9

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B**

Lab Name : **Kemron Environmental Services**

Base/Command : **Carswells AFB**

AAB # : **WG55828**

Contract # : **F41624-95-D-8003-0023**

Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SFU0208AA	L9905026-04
S13SFU0208AA/DUP	L9905026-05

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: **Dennis S. Tepe**

Date: **06-MAY-99**

Title: **Laboratory Manager**

507631

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA Lab Sample ID: L9905026-04 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	4.4	1	F
Barium, Total	.18	1.0	114	1	M
Cadmium, Total	.031	0.50	0.14	1	F

Comments:

4

AFCEE

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050A AAB # : WG55828

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0208AA/DUP Lab Sample ID: L9905026-05 Matrix: Soil

% Solids: 83 Initial Calibration ID: IRIS-ICP 09-APR-99

Date Received: 02-APR-99 Date Extracted: 05-APR-99 Date Analyzed: 09-APR-99

Concentration Units (mg/L or mg/kg dry weight): mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	.25	5.0	4.3	1	F
Barium, Total	.18	1.0	102	1	M
Cadmium, Total	.031	0.50	0.14	1	F

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 9-Apr-99 Initial Calibration ID: IRIS-ICP 09-APR-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	0.0187	0.4	0.0625	10	0.8475	20	1.7408	40	3.4881	0.9999	
Cadmium	0	0.0999	0.05	0.2014	1.25	2.1379	2.5	4.2448	5	8.3417	1	
Lead	0	-0.0135	0.5	0.0448	12.5	1.8345	25	3.82	50	7.7029	0.9999	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 9-Apr-99 Initial Calibration ID: IRIS-ICP 09-APR-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Barium	0	0.0998	0.5	3.9077	1	7.5009	25	189.11	50	376.33	100	743.95	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG55828

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 09-APR-1999

2nd Source ID: ALT IRIS-ICP 09-APR-1999

ICV ID: ICV IRIS-ICP 09-APR-1999

CCV #1 ID: CCV1 IRIS-ICP 09-APR-1999

CCV #2 ID CCV2 IRIS-ICP 09-APR-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	20	19.73	-1.35	20	19.73	-1.35	20	19.464	-2.68	20.212	1.06	
Barium	50	50.61	1.22	50	50.61	1.22	50	48.8185	-2.36	48.48500	-3.03	
Cadmium	2.5	2.5035	0.14	2.5	2.5035	0.14	2.5	2.4745	-1.02	2.516	0.64	
Lead	25	25.2275	0.91	25	25.2275	0.91	25	24.9135	-0.35	25.7245	2.90	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1.0.12/1/9

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

Analytical Method: 6010B

AAB#: WG55828

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 09-APR-1999

2nd Source ID: ALT IRIS-ICP 09-APR-1999

ICV ID: ICV IRIS-ICP 09-APR-1999

CCV #3 ID: CCV3 IRIS-ICP 09-APR-1999

CCV #4 ID CCV4 IRIS-ICP 09-APR-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 4	%D	Q
Arsenic	20	19.73	-1.35	20	19.73	-1.35	20	19.8315	-0.84	20.048	0.24	
Barium	50	50.61	1.22	50	50.61	1.22	50	49.3295	-1.34	48.97600	-2.05	
Cadmium	2.5	2.5035	0.14	2.5	2.5035	0.14	2.5	2.5165	0.66	2.5345	1.38	
Lead	25	25.2275	0.91	25	25.2275	0.91	25	25.7865	3.15	25.6705	2.68	

Comments:

Forms by ChemSW(707)864-0845,v1.0,12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 09-APR-1999

CCB #1 ID IRIS-ICP 09-APR-1999 CCB #2 ID: IRIS-ICP 09-APR-1999 CCB #3 ID: IRIS-ICP 09-APR-1999

Method Blank ID: WG55518-05

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	0.0705	0.001	0.047	0.023	0.119	5	
Barium	0.016	0.0055	0.009	0.00100	0.0055	1	
Cadmium	0.013	0.012	0.0195	0.00100	0.00100	0.5	
Lead	0.0735	0.046	0.277	0.141	0.08000	1.5	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 09-APR-1999

CCB #4 ID IRIS-ICP 09-APR-1999

Method Blank ID: WG55518-05 Initial Calibration ID: IRIS-ICP 09-APR-1999

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		4	0	0			
Arsenic	0.0705	0.0705			0.119	5	
Barium	0.016	0.0055			0.0055	1	
Cadmium	0.013	0.0195			0.00100	0.5	
Lead	0.0735	0.0125			0.08000	1.5	

Comments:

AFCEE FORM I-5

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INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG55828

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55518-06

Units: mg/kg

Initial Calibration IRIS-IC

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	20	22	110	75 - 125	
Barium, Total	50	55.7	111.4	75 - 125	
Cadmium, Total	2.5	2.8	112	75 - 125	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B AAB#: WG55828

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SFU0208AA	1-Apr-99	2-Apr-99	9-Apr-99	180	8	
S13SFU0208AA/DUP	1-Apr-99	2-Apr-99	9-Apr-99	180	8	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

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AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	9-Apr-99	17:47	9-Apr-99	
S1	9-Apr-99	17:51	9-Apr-99	
S2	9-Apr-99	17:55	9-Apr-99	
S3	9-Apr-99	17:58	9-Apr-99	
S4	9-Apr-99	18:02	9-Apr-99	
S5	9-Apr-99	18:05	9-Apr-99	
ICV IRIS-ICP 09-APR-1999	9-Apr-99	18:10	9-Apr-99	
ICB IRIS-ICP 09-APR-1999	9-Apr-99	18:17	9-Apr-99	
ICSA	9-Apr-99	18:55	9-Apr-99	
ICSAB	9-Apr-99	18:59	9-Apr-99	
CCV1 IRIS-ICP 09-APR-1999	9-Apr-99	19:02	9-Apr-99	
CCB1 IRIS-ICP 09-APR-1999	9-Apr-99	19:06	9-Apr-99	
WG55518-05	9-Apr-99	19:10	9-Apr-99	
WG55518-06	9-Apr-99	19:13	9-Apr-99	
NON-AFCEE	9-Apr-99	19:17	9-Apr-99	
NON-AFCEE	9-Apr-99	19:20	9-Apr-99	
NON-AFCEE	9-Apr-99	19:23	9-Apr-99	
NON-AFCEE	9-Apr-99	19:27	9-Apr-99	
NON-AFCEE	9-Apr-99	19:34	9-Apr-99	
S13SFU0208AA	9-Apr-99	19:37	9-Apr-99	
S13SFU0208A/DUP	9-Apr-99	19:41	9-Apr-99	
CCV2 IRIS-ICP 09-APR-1999	9-Apr-99	19:45	9-Apr-99	
CCB2 IRIS-ICP 09-APR-1999	9-Apr-99	19:51	9-Apr-99	

Comments:

SVOCs QA/QC

FPM

AFCEE

ORGANIC ANALYSES DATA PACKAGE

nalytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SFU0108AA	L9905026-01
S13SFU0108AA/MS	L9905026-02
S13SFU0108AA/MSD	L9905026-03
S13SFU0208AA	L9905026-04
S13SFU0208AA/DUP	L9905026-05

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 12-MAY-99

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

This case is being resubmitted due to a regrouping of samples requested by the client. The AFCEE forms and instrument printouts used in lieu of forms have been reprinted and/or hand corrected as necessary. The raw data deliverables have not been corrected. Please use the following as a cross reference.

L990502601	S13SFU0108AA	PREVIOUSLY L990406403
L990502602	S13SFU0108AA/MS	PREVIOUSLY L990406404
L990502603	S13SFU0108AA/MSD	PREVIOUSLY L990406405
L990502604	S13SFU0208AA	PREVIOUSLY L990406412
L990502605	S13SFU0208AA/DUP	PREVIOUSLY L990406413

In addition, we have added benzo(k)fluoranthene to the 8270 compound list.

Due to the changes in the data package we have renumbered the package at the top right corner of each page.

SEMIVOLATILE ORGANICS - 8270:

The second source standard failed to meet criteria for hexachlorocyclopentadiene, hexachlorobutadiene, and benzo(a)pyrene. The LCS, MS, and MSD yielded % recoveries for several analytes that were outside advisory limits. All results have been appropriately flagged.

METALS - 6010/7000:

The MS and MSD yielded % recovery for barium that was outside advisory limits. All results have been appropriately flagged.

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

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Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identificd but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

Calibration Table Report
Method: BNA.M
Title: M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Calibration: Thu Apr 01 15:57:28 1999
HPMS4
Calibration Files

	MLS	4	10	20	50	80	100	120	140		
		4M13035.	M13036.	M13037.	M13034.	M13038.	M13039.	M13040.	M13041.D		
	Compound									Avg	%RSD
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	2.291	2.187	2.395	2.263	2.222	2.164	2.146	2.079	2.218	4.4
	n-Nitrosodimethylamine	1.444	1.353	1.498	1.463	1.424	1.387	1.379	1.346	1.412	3.9
S	2-Fluorophenol	1.713	1.606	1.748	1.610	1.555	1.500	1.465	1.343	1.568	8.4
	Aniline	2.746	2.587	2.763	2.494	2.362	2.249	2.219	2.151	2.447	9.7
S	Phenol-d5	2.488	2.271	2.378	2.134	1.988	1.882	1.830	1.740	2.089	13.0
C	Phenol	2.657	2.443	2.521	2.185	1.982	1.846	1.759	1.660	2.132	17.7
	bis(2-Chloroethyl)ether	1.984	1.840	1.950	1.736	1.672	1.561	1.526	1.488	1.720	11.1
	2-Chlorophenol	1.552	1.484	1.560	1.408	1.304	1.283	1.249	1.200	1.380	10.2
	1,3-Dichlorobenzene	1.708	1.536	1.645	1.468	1.342	1.285	1.243	1.209	1.429	13.2
C	1,4-Dichlorobenzene	1.717	1.605	1.669	1.451	1.347	1.255	1.245	1.165	1.432	14.7
	Benzyl Alcohol	1.181	1.107	1.202	1.085	1.024	0.955	0.959	0.938	1.057	9.8
	1,2-Dichlorobenzene	1.639	1.489	1.526	1.330	1.259	1.172	1.162	1.106	1.336	14.6
	2-Methylphenol	1.422	1.352	1.416	1.209	1.140	1.064	1.034	1.012	1.206	14.1
	bis(2-Chloroisopropyl)eth	3.409	3.194	3.294	2.938	2.651	2.511	2.456	2.357	2.851	14.5
	4-Methylphenol	2.125	1.946	2.096	1.825	1.699	1.537	1.533	1.495	1.782	14.3
P	n-Nitrosodipropylamine	1.433	1.361	1.441	1.302	1.217	1.184	1.112	1.148	1.275	10.0
	Hexachloroethane	0.706	0.656	0.691	0.637	0.607	0.576	0.550	0.540	0.621	10.2
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.592	0.553	0.600	0.554	0.519	0.519	0.477	0.465	0.535	9.2
	Nitrobenzene	0.588	0.548	0.596	0.536	0.505	0.490	0.457	0.441	0.520	11.0
	Isophorone	1.063	1.028	1.077	0.943	0.874	0.870	0.809	0.819	0.935	11.6
C	2-Nitrophenol	0.227	0.230	0.256	0.220	0.190	0.183	0.165	0.159	0.204	17.3
	2,4-Dimethylphenol	0.427	0.392	0.405	0.327	0.262	0.265	0.242	0.238	0.324	24.2
	bis(2-Chloroethoxy)methan	0.721	0.686	0.743	0.602	0.540	0.504	0.436	0.442	0.587	21.0
	Benzoic Acid		0.067	0.141	0.193	0.221	0.231	0.212	0.223	0.184	32.5
	2,4-Dichlorophenol	0.350	0.343	0.371	0.328	0.306	0.292	0.278	0.277	0.318	11.0
	1,2,4-Trichlorobenzene	0.399	0.372	0.395	0.345	0.313	0.302	0.277	0.276	0.335	14.9
	Naphthalene	1.310	1.211	1.239	1.015	0.891	0.850	0.774	0.749	1.005	22.1
	4-Chloroaniline	0.721	0.667	0.702	0.592	0.529	0.516	0.466	0.461	0.582	18.0
C	Hexachlorobutadiene	0.204	0.199	0.214	0.184	0.171	0.169	0.154	0.149	0.181	12.1
C	4-Chloro-3-Methylphenol	0.427	0.403	0.429	0.383	0.352	0.339	0.313	0.316	0.370	12.7
	2-Methylnaphthalene	0.799	0.728	0.740	0.606	0.535	0.511	0.446	0.449	0.602	23.0
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.317	0.340	0.398	0.417	0.424	0.410	0.389	0.373	0.384	9.9
C	2,4,6-Trichlorophenol	0.443	0.427	0.504	0.503	0.473	0.463	0.442	0.438	0.462	6.4
	2,4,5-Trichlorophenol	0.491	0.465	0.551	0.528	0.500	0.481	0.456	0.426	0.487	8.2
S	2-Fluorobiphenyl	1.599	1.489	1.619	1.472	1.356	1.288	1.214	1.164	1.400	12.2
	2-Chloronaphthalene	1.451	1.331	1.396	1.324	1.178	1.158	1.073	1.039	1.244	12.3
	2-Nitroaniline	0.564	0.533	0.628	0.633	0.604	0.602	0.571	0.556	0.586	6.1
	Dimethylphthalate	1.732	1.594	1.665	1.640	1.506	1.522	1.435	1.369	1.558	7.8
	Acenaphthylene	2.331	2.105	2.341	2.102	1.908	1.893	1.734	1.647	2.008	12.8
	2,6-Dinitrotoluene	0.366	0.361	0.440	0.431	0.422	0.428	0.406	0.390	0.406	7.4
	3-Nitroaniline	0.536	0.525	0.620	0.625	0.589	0.590	0.554	0.533	0.571	7.0
C	Acenaphthene	1.365	1.287	1.362	1.227	1.135	1.069	1.008	0.936	1.176	14.1
P	2,4-Dinitrophenol	0.020	0.074	0.145	0.201	0.206	0.205	0.205	0.196	0.156	45.9
F	4-Nitrophenol	0.322	0.292	0.329	0.336	0.333	0.319	0.309	0.276	0.316	7.0
	Dibenzofuran	2.076	1.862	1.957	1.828	1.683	1.595	1.508	1.428	1.747	13.3
	2,4-Dinitrotoluene	0.491	0.480	0.557	0.565	0.553	0.546	0.524	0.501	0.526	6.6
	Diethylphthalate	1.828	1.546	1.695	1.523	1.452	1.423	1.356	1.325	1.519	11.3
	Fluorene	1.553	1.427	1.460	1.243	1.082	1.009	0.921	0.860	1.194	22.1
	4-Chlorophenyl Phenyl Eth	0.740	0.687	0.737	0.687	0.592	0.602	0.556	0.541	0.643	12.4
	4-Nitroaniline	0.479	0.453	0.483	0.425	0.364	0.335	0.305	0.293	0.393	20.2
	1,2-Diphenylhydrazine	2.176	1.968	2.073	1.927	1.805	1.708	1.610	1.659	1.866	10.9
S	2,4,6-Tribromophenol	0.199	0.213	0.248	0.251	0.244	0.237	0.214	0.200	0.226	9.6
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylpheno	0.068	0.114	0.168	0.195	0.190	0.186	0.171	0.155	0.157	27.5
C	n-Nitrosodiphenylamine	0.718	0.687	0.665	0.578	0.505	0.473	0.435	0.379	0.555	22.7

	[illegible]ether	0.277	0.272	0.263	0.245	0.216	0.198	0.185	0.173	0.229	17.9
	Hexachlorobenzene	0.320	0.302	0.305	0.260	0.229	0.207	0.192	0.176	0.249	22.4
C	Pentachlorophenol	0.094	0.125	0.150	0.161	0.161	0.152	0.148	0.138	0.141	15.8
	Phenanthrene	1.438	1.300	1.263	1.056	0.920	0.859	0.806	0.755	1.050	24.4
	Anthracene	1.401	1.321	1.291	1.098	0.966	0.911	0.836	0.759	1.073	22.5
	Carbazole	1.393	1.293	1.282	1.062	0.978	0.872	0.842	0.798	1.065	21.7
	Di-n-Butyl Phthalate	1.816	1.736	1.678	1.402	1.244	1.125	1.062	0.985	1.381	23.7
C	Fluoranthene	1.448	1.361	1.320	1.119	0.997	0.897	0.842	0.784	1.096	23.3
I	Chrysene-d12	ISTD									
	Benzidine	0.446	0.545	0.464	0.467	0.396	0.515	0.390	0.410	0.454	12.3
	Pyrene	1.693	1.626	1.577	1.325	1.190	1.092	1.043	0.974	1.315	21.6
S	p-Terphenyl-d14	1.182	1.135	1.077	0.874	0.779	0.704	0.632	0.572	0.869	27.2
	Butyl Benzyl Phthalate	0.875	0.828	0.855	0.767	0.701	0.661	0.613	0.576	0.734	15.5
	Benzo[a]anthracene	1.444	1.374	1.411	1.244	1.186	1.111	1.050	1.002	1.228	13.8
	3,3'-Dichlorobenzidine	0.541	0.552	0.567	0.531	0.495	0.477	0.446	0.416	0.503	10.7
	Chrysene	1.408	1.380	1.364	1.167	1.079	1.037	0.950	0.900	1.161	17.4
	bis(2-Ethylhexyl)phthalat	1.123	1.121	1.183	1.062	0.969	0.927	0.860	0.817	1.008	13.3
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.524	1.643	1.794	1.667	1.499	1.409	1.334	1.237	1.513	12.2
	Benzo[b]fluoranthene	1.212	1.132	1.300	1.124	1.060	0.972	1.014	0.888	1.088	12.2
	Benzo[k]fluoranthene	1.127	1.064	1.026	0.981	0.912	0.950	0.776	0.770	0.951	13.5
C	Benzo[a]pyrene	0.987	0.953	1.052	0.994	0.933	0.933	0.878	0.851	0.948	6.8
	Indeno[1,2,3-cd]pyrene	1.140	1.095	1.207	1.118	1.105	1.102	1.096	1.028	1.112	4.5
	Dibenz[ah]anthracene	0.889	0.858	0.950	0.879	0.863	0.857	0.846	0.799	0.868	4.9
	Benzo[ghi]perylene	0.952	0.905	1.031	1.004	1.023	1.051	1.067	1.000	1.004	5.3

Thu Apr 01 15:59:27 1999

Calibration Lab E Report
Method: BNA.M
Title: M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Calibration: Mon Apr 09 11:21:25 1999
HPMS4
Calibration Files

507 648

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	MLS	4	10	20	50	80	100	120	140		
		4M13122.	M13123.	M13124.	M13121.	M13125.	M13126.	M13127.	M13128.D		
	Compound									Avg	%RSD
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	2.215	2.116	2.240	2.047	2.156	2.053	2.026	1.977	2.104	4.5
	n-Nitrosodimethylamine	1.441	1.352	1.484	1.350	1.407	1.403	1.363	1.329	1.391	3.8
S	2-Fluorophenol	1.629	1.597	1.687	1.529	1.463	1.431	1.380	1.339	1.507	8.2
	Aniline	2.642	2.397	2.548	2.415	2.220	1.967	1.913	1.961	2.258	12.6
S	Phenol-d5	2.345	2.207	2.266	2.031	1.959	1.804	1.728	1.725	2.008	12.2
C	Phenol	2.498	2.307	2.322	2.067	1.957	1.823	1.742	1.700	2.052	14.5
	bis(2-Chloroethyl)ether	1.906	1.778	1.849	1.645	1.582	1.493	1.480	1.405	1.642	11.3
	2-Chlorophenol	1.475	1.395	1.447	1.295	1.252	1.184	1.123	1.135	1.288	10.8
	1,3-Dichlorobenzene	1.729	1.572	1.645	1.447	1.388	1.316	1.278	1.234	1.451	12.5
C	1,4-Dichlorobenzene	1.731	1.592	1.625	1.451	1.359	1.295	1.258	1.234	1.443	13.0
	Benzyl Alcohol	1.091	1.042	1.129	1.033	0.990	0.937	0.913	0.894	1.003	8.5
	1,2-Dichlorobenzene	1.598	1.484	1.514	1.380	1.280	1.189	1.142	1.151	1.342	13.2
	2-Methylphenol	1.401	1.271	1.347	1.217	1.122	1.047	1.024	1.000	1.179	13.0
	bis(2-Chloroisopropyl)eth	3.224	3.020	3.145	2.768	2.661	2.500	2.389	2.331	2.755	12.5
	4-Methylphenol	2.027	1.930	1.998	1.814	1.665	1.585	1.524	1.494	1.755	12.3
P	n-Nitrosodipropylamine	1.486	1.446	1.526	1.405	1.317	1.288	1.236	1.221	1.365	8.5
	Hexachloroethane	0.746	0.678	0.702	0.651	0.640	0.598	0.587	0.574	0.647	9.2
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.662	0.608	0.680	0.602	0.598	0.582	0.537	0.549	0.602	8.2
	Nitrobenzene	0.670	0.614	0.674	0.576	0.578	0.553	0.511	0.516	0.587	10.7
	Isophorone	1.148	1.097	1.164	1.017	0.972	0.955	0.917	0.901	1.021	10.1
C	2-Nitrophenol	0.255	0.237	0.255	0.212	0.196	0.187	0.181	0.178	0.213	15.1
	2,4-Dimethylphenol	0.404	0.365	0.376	0.318	0.285	0.279	0.271	0.269	0.321	16.7
	bis(2-Chloroethoxy)methan	0.725	0.675	0.712	0.611	0.526	0.507	0.482	0.475	0.589	17.8
	Benzoic Acid			0.185	0.216	0.226	0.230	0.228	0.252	0.223	9.7
C	2,4-Dichlorophenol	0.397	0.368	0.395	0.348	0.324	0.314	0.304	0.303	0.344	11.3
	1,2,4-Trichlorobenzene	0.451	0.412	0.436	0.369	0.345	0.336	0.321	0.319	0.374	14.1
	Naphthalene	1.291	1.170	1.197	1.021	0.902	0.888	0.867	0.850	1.023	17.0
	4-Chloroaniline	0.691	0.625	0.661	0.568	0.523	0.500	0.483	0.485	0.567	14.6
C	Hexachlorobutadiene	0.262	0.248	0.263	0.230	0.220	0.206	0.192	0.188	0.226	13.2
C	4-Chloro-3-Methylphenol	0.461	0.444	0.482	0.419	0.395	0.386	0.365	0.355	0.413	11.1
	2-Methylnaphthalene	0.814	0.734	0.783	0.637	0.575	0.552	0.535	0.520	0.640	17.7
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.396	0.403	0.464	0.445	0.441	0.428	0.410	0.410	0.425	5.6
C	2,4,6-Trichlorophenol	0.514	0.476	0.531	0.487	0.476	0.463	0.471	0.460	0.485	5.2
	2,4,5-Trichlorophenol	0.548	0.524	0.573	0.530	0.496	0.490	0.448	0.439	0.506	9.2
S	2-Fluorobiphenyl	1.731	1.573	1.610	1.420	1.346	1.310	1.242	1.212	1.430	13.2
	2-Chloronaphthalene	1.494	1.357	1.408	1.217	1.165	1.142	1.097	1.059	1.242	12.7
	2-Nitroaniline	0.630	0.611	0.689	0.633	0.638	0.612	0.607	0.576	0.626	5.1
	Dimethylphthalate	1.812	1.710	1.760	1.570	1.533	1.481	1.453	1.424	1.593	9.3
	Acenaphthylene	2.305	2.171	2.197	2.004	1.814	1.838	1.725	1.672	1.966	12.1
	2,6-Dinitrotoluene	0.390	0.404	0.436	0.411	0.391	0.389	0.376	0.366	0.395	5.5
	3-Nitroaniline	0.532	0.522	0.564	0.523	0.510	0.490	0.486	0.470	0.512	5.8
C	Acenaphthene	1.368	1.300	1.306	1.172	1.094	1.080	1.015	0.981	1.167	12.8
P	2,4-Dinitrophenol	0.085	0.142	0.191	0.219	0.219	0.223	0.219	0.216	0.189	26.5
P	4-Nitrophenol	0.393	0.366	0.396	0.391	0.366	0.334	0.314	0.303	0.358	10.2
	Dibenzofuran	2.056	1.975	1.951	1.768	1.597	1.601	1.521	1.461	1.742	13.2
	2,4-Dinitrotoluene	0.546	0.527	0.559	0.531	0.510	0.502	0.479	0.474	0.516	5.9
	Diethylphthalate	1.890	1.685	1.726	1.498	1.436	1.417	1.357	1.326	1.542	13.1
	Fluorene	1.608	1.466	1.431	1.213	1.121	1.065	0.997	0.925	1.228	20.1
	4-Chlorophenyl Phenyl Eth	0.816	0.765	0.779	0.694	0.634	0.609	0.589	0.556	0.680	14.3
	4-Nitroaniline	0.453	0.445	0.443	0.381	0.339	0.327	0.313	0.296	0.375	17.3
	1,2-Diphenylhydrazine	2.192	2.073	2.046	1.847	1.726	1.629	1.530	1.489	1.816	14.8
S	2,4,6-Tribromophenol	0.245	0.260	0.284	0.275	0.252	0.245	0.218	0.213	0.249	10.0
	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylphenc	0.131	0.164	0.197	0.193	0.184	0.183	0.172	0.170	0.174	12.0
	n-Nitrosodiphenylamine	0.716	0.667	0.639	0.540	0.498	0.476	0.450	0.434	0.552	19.5

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	4-Bromophenyl Phenyl Ether	0.297	0.283	0.294	0.248	0.234	0.216	0.204	0.194	0.246	16.7
	Hexachlorobenzene	0.344	0.328	0.340	0.286	0.250	0.238	0.211	0.200	0.275	21.2
C	Pentachlorophenol	0.126	0.153	0.182	0.179	0.177	0.175	0.161	0.157	0.164	11.6
	Phenanthrene	1.420	1.229	1.235	1.048	0.937	0.934	0.910	0.862	1.072	18.7
	Anthracene	1.398	1.287	1.311	1.058	0.975	0.946	0.824	0.806	1.076	21.3
	Carbazole	1.364	1.261	1.258	1.056	0.928	0.943	0.891	0.853	1.069	18.5
	Di-n-Butyl Phthalate	1.750	1.600	1.598	1.359	1.241	1.185	1.091	1.091	1.364	18.7
C	Fluoranthene	1.494	1.399	1.387	1.171	1.056	1.013	0.951	0.898	1.171	19.5
I	Chrysene-d12	ISTD									
	Benzidine	0.434	0.402	0.405	0.515	0.339	0.310	0.240	0.335	0.372	22.7
	Pyrene	1.704	1.563	1.567	1.331	1.273	1.192	1.086	1.053	1.346	17.9
S	p-Terphenyl-d14	1.260	1.141	1.127	0.954	0.858	0.776	0.672	0.636	0.928	24.9
	Butyl Benzyl Phthalate	0.817	0.792	0.811	0.698	0.689	0.649	0.594	0.589	0.705	13.2
	Benzo[a]anthracene	1.443	1.353	1.402	1.276	1.213	1.123	1.085	1.067	1.245	11.7
	3,3'-Dichlorobenzidine	0.585	0.551	0.582	0.509	0.516	0.488	0.449	0.442	0.515	10.7
	Chrysene	1.422	1.266	1.315	1.158	1.128	1.071	0.989	0.984	1.167	13.5
	bis(2-Ethylhexyl)phthalat	1.063	1.040	1.094	0.956	0.947	0.868	0.834	0.819	0.953	11.2
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.603	1.564	1.627	1.759	1.336	1.328	1.214	1.258	1.461	13.8
	Benzo[b]fluoranthene	1.309	1.213	1.212	1.281	1.088	1.042	0.972	0.948	1.133	12.3
	Benzo[k]fluoranthene	1.033	1.054	1.139	1.258	0.909	0.941	0.972	0.948	1.032	11.4
C	Benzo[a]pyrene	1.004	0.989	1.057	1.153	0.932	0.945	0.857	0.870	0.976	10.0
	Indeno[1,2,3-cd]pyrene	0.979	0.942	1.056	1.085	0.891	0.898	0.849	0.889	0.949	8.9
	Dibenz[ah]anthracene	0.784	0.756	0.853	0.884	0.722	0.725	0.682	0.713	0.765	9.3
	Benzo[ghi]perylene	0.787	0.758	0.847	0.894	0.762	0.764	0.728	0.768	0.789	6.9

Mon Apr 19 15:37:36 1999

507 619

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

507 650

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Analytical Method: 8270C
AAB#: WG55682
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS4
Date of Initial Calibration: 7-Apr-99
2nd Source ID: ALT HPMS4 7-APR-99

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	4.70	
Hexachlorocyclopentadiene *	28.50	*
2,4-Dinitrophenol *	2.00	
4-Nitrophenol *	20.00	
Phenol #	2.40	
1,4-Dichlorobenzene #	3.90	
2-Nitrophenol #	0.90	
2,4-Dichlorophenol #	5.00	
Hexachlorobutadiene #	26.20	*
4-Chloro-3-methyl phenol #	10.40	
2,4,6-Trichlorophenol #	7.90	
Acenaphthene #	2.80	
n-Nitrosodiphenylamine #	7.00	
Pentachlorophenol #	3.70	
Fluoranthene #	5.70	
Di-n-octylphthalate #	19.50	
Benzo(a)pyrene #	25.30	*
1,2,4-Trichlorobenzene	7.90	
1,2-Dichlorobenzene	7.90	
1,3-Dichlorobenzene	4.80	
2,4-Dinitrotoluene	0.40	
2,6-Dinitrotoluene	2.70	
2-Chloronaphthalene	1.80	
2-Methylnaphthalene	2.20	
2-Nitroaniline	9.50	
3-Nitroaniline	6.50	
3,3-Dichlorobenzidine	4.60	
4-Bromophenyl phenyl ether	9.40	
4-Chloroaniline	0.80	
4-Chlorophenyl phenyl ether	5.70	
4-Nitroaniline	6.90	
Acenaphthylene	3.20	
Anthracene	0.40	
Benz(a)anthracene	2.20	
Benzo(b)fluoranthene	17.70	
Benzo(g,h,i)perylene	6.90	
Benzyl alcohol	1.80	
Bis (2-chloroethoxy)methane	3.10	
Bis (2-chloroethyl) ether	1.30	
Bis (2-chloroisopropyl) ether	1.40	
Bis (2-ethylhexyl) phthalate	5.20	
Butyl Benzyl Phthalate	6.50	
Chrysene	1.20	
Di-n-butylphthalate	4.30	
Dibenz (a,h) Anthracene	8.30	
Dibenzofuran	4.30	
Diethyl phthalate	4.50	
Dimethyl phthalate	2.60	
Fluorene	2.30	
Hexachlorobenzene	14.10	
Hexachloroethane	5.50	
Indeno[1,2,3-cd]pyrene	0.90	
Isophorone	13.20	
n-Nitrosodimethylamine	4.70	
Naphthalene	0.50	
Nitrobenzene	11.10	
Phenanthrene	3.10	
Pyrene	4.30	
2,4,5-Trichlorophenol	0.70	
2,4-Dimethylphenol	1.00	
2-Chlorophenol	3.50	
2-Methylphenol	4.30	
4,6-Dinitro-2-methylphenol	6.90	
4-Methylphenol	0.10	
Benzoic acid	7.00	

Comments:

Data File : C:\HPCHEM\1\DATA\040699\4M13101.D
Acq On : 6 Apr 1999 11:06
Sample : WG55568-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: MLS
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNASOIL.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Update : Tue Apr 06 09:57:10 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1333.333	1333.333	0.0	102	0.00
2		Pyridine	1666.667	1608.259	3.5	97	0.00
3		n-Nitrosodimethylamine	1666.667	1661.629	0.3	98	0.00
4	S	2-Fluorophenol	1666.667	1619.743	2.8	97	0.00
5		Aniline	1666.667	1546.825	7.2	93	0.02
6	S	Phenol-d5	1666.667	1604.802	3.7	96	0.00
7	C	Phenol	1666.667	1660.023	0.4	101	0.00
8		bis(2-Chloroethyl)ether	1666.667	1577.375	5.4	96	0.00
9		2-Chlorophenol	1666.667	1623.737	2.6	98	0.00
10		1,3-Dichlorobenzene	1666.667	1712.280	-2.7	102	0.00
11	C	1,4-Dichlorobenzene	1666.667	1709.574	-2.6	103	0.00
12		Benzyl Alcohol	1666.667	1615.817	3.1	97	0.00
13	C	1,2-Dichlorobenzene	1666.667	1688.801	-1.3	104	0.00
14		2-Methylphenol	1666.667	1671.275	-0.3	102	0.00
15		bis(2-Chloroisopropyl)ether	1666.667	1604.362	3.7	96	0.00
16		4-Methylphenol	1666.667	1631.399	2.1	98	0.00
17	P	n-Nitrosodipropylamine	1666.667	1747.236	-4.8	105	0.00
18		Hexachloroethane	1666.667	1759.588	-5.6	105	0.00
19	I	Naphthalene-d8	1333.333	1333.333	0.0	103	0.00
20	S	Nitrobenzene-d5	1666.667	1752.506	-5.2	104	0.00
21		Nitrobenzene	1666.667	1766.419	-6.0	106	0.00
22		Isophorone	1666.667	1733.359	-4.0	106	0.00
23	C	2-Nitrophenol	1666.667	1678.808	-0.7	100	0.00
24		2,4-Dimethylphenol	1666.667	1621.016	2.7	97	0.00
25		bis(2-Chloroethoxy)methane	1666.667	1676.332	-0.6	100	0.00
26		Benzoic Acid	1666.667	1668.036	-0.1	117	0.00
27	C	2,4-Dichlorophenol	1666.667	1734.445	-4.1	103	0.00
28		1,2,4-Trichlorobenzene	1666.667	1816.739	-9.0	108	0.00
29		Naphthalene	1666.667	1600.821	4.0	97	0.00
30		4-Chloroaniline	1666.667	1552.097	6.9	95	0.00
31	C	Hexachlorobutadiene	1666.667	1968.767	-18.1	119	0.00
32	C	4-Chloro-3-Methylphenol	1666.667	1828.143	-9.7	109	0.00
33		2-Methylnaphthalene	1666.667	1728.595	-3.7	104	0.00
34	I	Acenaphthene-d10	1333.333	1333.333	0.0	115	0.00
35	P	Hexachlorocyclopentadiene	1666.667	1949.675	-17.0	123	0.00
36	C	2,4,6-Trichlorophenol	1666.667	1789.967	-7.4	113	0.00
37		2,4,5-Trichlorophenol	1666.667	1766.174	-6.0	112	0.00
38	S	2-Fluorobiphenyl	1666.667	1693.997	-1.6	111	0.00
39		2-Chloronaphthalene	1666.667	1660.338	0.4	107	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040699\4M13101.D Vial: 2
Acq On : 6 Apr 1999 11:06 Operator: MLS
Sample : WG55568-02 50PPM BNA STD S40-35-04 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNASOIL.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Update : Tue Apr 06 09:57:10 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	1666.667	1733.325	-4.0	111	0.00
41		Dimethylphthalate	1666.667	1715.140	-2.9	112	0.00
42		Acenaphthylene	1666.667	1639.415	1.6	108	0.00
43		2,6-Dinitrotoluene	1666.667	1722.066	-3.3	112	0.00
44		3-Nitroaniline	1666.667	1549.719	7.0	97	0.00
45	C	Acenaphthene	1666.667	1660.374	0.4	110	0.00
46	P	2,4-Dinitrophenol	1666.667	1749.913	-5.0	120	0.00
47	P	4-Nitrophenol	1666.667	1888.635	-13.3	122	0.00
48		Dibenzofuran	1666.667	1663.826	0.2	110	0.00
49		2,4-Dinitrotoluene	1666.667	1725.645	-3.5	111	0.00
50		Diethylphthalate	1666.667	1671.573	-0.3	115	0.00
51		Fluorene	1666.667	1725.248	-3.5	116	0.00
52		4-Chlorophenyl Phenyl Ether	1666.667	1821.351	-9.3	117	0.00
53		4-Nitroaniline	1666.667	1613.908	3.2	107	0.00
54		1,2-Diphenylhydrazine	1666.667	1653.687	0.8	110	0.00
55	S	2,4,6-Tribromophenol	1666.667	2031.586	-21.9	126	0.00
56	I	Phenanthrene-d10	1333.333	1333.333	0.0	117	0.00
57		4,6-Dinitro-2-Methylphenol	1666.667	1621.985	2.7	118	0.00
58	C	n-Nitrosodiphenylamine	1666.667	1553.912	6.8	111	0.00
59		4-Bromophenyl Phenyl Ether	1666.667	1790.798	-7.4	122	0.00
60		Hexachlorobenzene	1666.667	1916.629	-15.0	130	0.00
61	C	Pentachlorophenol	1666.667	1770.115	-6.2	127	0.00
62		Phenanthrene	1666.667	1650.561	1.0	114	0.00
63		Anthracene	1666.667	1568.413	5.9	112	0.00
64		Carbazole	1666.667	1689.535	-1.4	118	0.00
65		Di-n-Butyl Phthalate	1666.667	1608.189	3.5	113	0.00
66	C	Fluoranthene	1666.667	1797.158	-7.8	123	0.00
67	I	Chrysene-d12	1333.333	1333.333	0.0	119	0.00
68		Benzidine	1666.667	1818.729	-9.1	126	0.00
69		Pyrene	1666.667	1712.727	-2.8	121	0.00
70	S	p-Terphenyl-d14	1666.667	1844.047	-10.6	131	0.00
71		Butyl Benzyl Phthalate	1666.667	1492.936	10.4	108	0.00
72		Benzo[a]anthracene	1666.667	1721.648	-3.3	122	0.00
73		3,3'-Dichlorobenzidine	1666.667	1798.207	-7.9	122	0.00
74		Chrysene	1666.667	1686.063	-1.2	122	0.00
75		bis(2-Ethylhexyl)phthalate	1666.667	1570.412	5.8	107	0.00
76	I	Perylene-d12	1333.333	1333.333	0.0	125	0.00
77	C	Di-n-Octyl Phthalate	1666.667	1567.068	6.0	107	0.02

(#) = Out of Range

507 652

Data File : C:\HPCHEM\1\DATA\040699\4M13101.D
Acq On : 6 Apr 1999 11:06
Sample : WG55568-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: MLS
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNASOIL.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/01/99
Last Update : Tue Apr 06 09:57:10 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1666.667	1639.155	1.7	119	0.02
79		Benzo[k]fluoranthene	1666.667	1730.547	-3.8	126	0.02
80	C	Benzo[a]pyrene	1666.667	1703.087	-2.2	122	0.02
81		Indeno[1,2,3-cd]pyrene	1666.667	1725.063	-3.5	129	0.02
82		Dibenz[ah]anthracene	1666.667	1742.108	-4.5	129	0.03
83		Benzo[ghi]perylene	1666.667	1724.731	-3.5	129	0.03

Data File : C:\HPCHEM\1\DATA\040999\4M13131.D
Acq On : 9 Apr 1999 8:27
Sample : WG55730-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Update : Fri Apr 09 11:21:25 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.00
2		Pyridine	50.000	49.479	1.0	114	0.04
3		n-Nitrosodimethylamine	50.000	48.377	3.2	111	0.04
4	S	2-Fluorophenol	50.000	47.507	5.0	105	0.02
5		Aniline	50.000	49.156	1.7	103	-0.05
6	S	Phenol-d5	50.000	48.160	3.7	106	0.00
7	C	Phenol	50.000	49.507	1.0	110	0.00
8		bis(2-Chloroethyl)ether	50.000	47.901	4.2	107	0.00
9		2-Chlorophenol	50.000	47.508	5.0	106	0.00
10		1,3-Dichlorobenzene	50.000	46.051	7.9	103	0.00
11	C	1,4-Dichlorobenzene	50.000	46.716	6.6	104	0.00
12		Benzyl Alcohol	50.000	47.867	4.3	104	0.00
13	C	1,2-Dichlorobenzene	50.000	46.981	6.0	102	0.00
14		2-Methylphenol	50.000	47.255	5.5	102	0.00
15		bis(2-Chloroisopropyl)ether	50.000	49.438	1.1	110	-0.01
16		4-Methylphenol	50.000	46.803	6.4	101	-0.01
17	P	n-Nitrosodipropylamine	50.000	46.636	6.7	101	-0.01
18		Hexachloroethane	50.000	46.313	7.4	103	-0.01
19	I	Naphthalene-d8	40.000	40.000	0.0	112	0.00
20	S	Nitrobenzene-d5	50.000	46.280	7.4	104	0.00
21		Nitrobenzene	50.000	46.547	6.9	106	0.00
22		Isophorone	50.000	46.120	7.8	104	0.00
23	C	2-Nitrophenol	50.000	55.952	-11.9	110	0.00
24		2,4-Dimethylphenol	50.000	54.894	-9.8	107	0.00
25		bis(2-Chloroethoxy)methane	50.000	48.795	2.4	104	0.00
26		Benzoic Acid	50.000	43.008	14.0	106	0.00
27	C	2,4-Dichlorophenol	50.000	46.093	7.8	102	0.00
28		1,2,4-Trichlorobenzene	50.000	45.152	9.7	103	0.00
29		Naphthalene	50.000	52.939	-5.9	103	0.00
30		4-Chloroaniline	50.000	46.810	6.4	105	-0.01
31	C	Hexachlorobutadiene	50.000	43.538	12.9	96	0.00
32	C	4-Chloro-3-Methylphenol	50.000	46.223	7.6	102	-0.01
33		2-Methylnaphthalene	50.000	52.581	-5.2	101	-0.01
34	I	Acenaphthene-d10	40.000	40.000	0.0	114	0.00
35	P	Hexachlorocyclopentadiene	50.000	44.037	11.9	95	0.01
36	C	2,4,6-Trichlorophenol	50.000	44.957	10.1	102	0.00
37		2,4,5-Trichlorophenol	50.000	47.139	5.7	102	0.00
38	S	2-Fluorobiphenyl	50.000	44.948	10.1	103	0.00
39		2-Chloronaphthalene	50.000	45.582	8.8	106	0.00

(#) = Out of Range

507 651

Data File : C:\HPCHEM\1\DATA\040999\4M13131.D Vial: 2
Acq On : 9 Apr 1999 8:27 Operator: mdc
Sample : WG55730-02 50PPM BNA STD S40-35-04 Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Update : Fri Apr 09 11:21:25 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	•	2-Nitroaniline	50.000	47.767	4.5	107	0.00
41		Dimethylphthalate	50.000	46.301	7.4	107	0.00
42		Acenaphthylene	50.000	45.830	8.3	102	0.01
43		2,6-Dinitrotoluene	50.000	47.363	5.3	104	0.01
44		3-Nitroaniline	50.000	48.288	3.4	107	0.00
45	C	Acenaphthene	50.000	47.085	5.8	106	0.00
46	P	2,4-Dinitrophenol	50.000	46.709	6.6	106	0.00
47	P	4-Nitrophenol	50.000	50.197	-0.4	104	0.00
48		Dibenzofuran	50.000	45.259	9.5	101	0.00
49		2,4-Dinitrotoluene	50.000	46.832	6.3	103	0.00
50		Diethylphthalate	50.000	44.448	11.1	104	0.00
51		Fluorene	50.000	45.136	9.7	106	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	45.852	8.3	102	0.00
53		4-Nitroaniline	50.000	49.444	1.1	110	0.00
54		1,2-Diphenylhydrazine	50.000	47.156	5.7	105	0.00
55	S	2,4,6-Tribromophenol	50.000	47.232	5.5	97	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	112	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	50.053	-0.1	101	0.00
58	C	n-Nitrosodiphenylamine	50.000	46.901	6.2	106	0.00
59		4-Bromophenyl Phenyl Ether	50.000	44.431	11.1	102	0.00
60		Hexachlorobenzene	50.000	44.709	10.6	101	0.00
61	C	Pentachlorophenol	50.000	49.097	1.8	100	0.00
62		Phenanthrene	50.000	54.783	-9.6	106	0.00
63		Anthracene	50.000	44.421	11.2	103	0.00
64		Carbazole	50.000	47.031	5.9	104	0.00
65		Di-n-Butyl Phthalate	50.000	47.229	5.5	105	0.00
66	C	Fluoranthene	50.000	45.870	8.3	103	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	109	0.00
68		Benzidine	50.000	65.154	-30.3	87	0.00
69		Pyrene	50.000	45.892	8.2	104	0.00
70	S	p-Terphenyl-d14	50.000	44.788	10.4	101	0.00
71		Butyl Benzyl Phthalate	50.000	46.876	6.2	104	0.00
72		Benzo[a]anthracene	50.000	47.060	5.9	101	0.00
73		3,3'-Dichlorobenzidine	50.000	47.373	5.3	105	0.00
74		Chrysene	50.000	47.406	5.2	105	0.01
75		bis(2-Ethylhexyl)phthalate	50.000	47.136	5.7	103	0.00
76	I	Perylene-d12	40.000	40.000	0.0	109	0.00
77	C	Di-n-Octyl Phthalate	50.000	57.098	-14.2	104	-0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040999\4M13131.D
Acq On : 9 Apr 1999 8:27
Sample : WG55730-02 50PPM BNA STD S40-35-04
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 04/07/99
Last Update : Fri Apr 09 11:21:25 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	55.599	-11.2	107	-0.02
79		Benzo[k]fluoranthene	50.000	52.673	-5.3	94	0.00
80	C	Benzo[a]pyrene	50.000	53.829	-7.7	100	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	54.628	-9.3	104	0.02
82		Dibenz[ah]anthracene	50.000	54.709	-9.4	103	0.03
83		Benzo[ghi]perylene	50.000	54.627	-9.3	105	0.00

AFCEE
ORGANIC ANALYSES DATA SHEET 6
BLANK

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55494-02

Initial Calibration HPMS4 1-APR-99

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	0.033	0.70	
1,2-Dichlorobenzene	0.033	0.70	
1,3-Dichlorobenzene	0.032	0.70	
1,4-Dichlorobenzene	0.034	0.70	
2,4,5-Trichlorophenol	0.047	3.3	
2,4,6-Trichlorophenol	0.042	0.30	
2,4-Dichlorophenol	0.041	0.30	
2,4-Dimethylphenol	0.037	0.30	
2,4-Dinitrophenol	0.11	3.3	
2,4-Dinitrotoluene	0.042	0.70	
2,6-Dinitrotoluene	0.04	0.70	
2-Chloronaphthalene	0.04	0.70	
2-Chlorophenol	0.034	0.30	
2-Methylnaphthalene	0.037	0.70	
2-Methylphenol	0.063	0.30	
2-Nitroaniline	0.046	3.3	
2-Nitrophenol	0.032	0.30	
3,3'-Dichlorobenzidine	0.15	1.3	
3-Nitroaniline	0.072	3.3	
4,6-Dinitro-2-methylphenol	0.036	3.3	
4-Bromophenyl-phenylether	0.038	0.70	
4-Chloro-3-methylphenol	0.046	1.3	
4-Chloroaniline	0.053	1.3	
4-Chlorophenyl-phenyl ether	0.044	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55494-02

Initial Calibration HPMS4 1-APR-99

Analyte	Method Blank	RL	Q
4-Methylphenol	0.041	0.30	
4-Nitroaniline	0.04	3.3	
Acenaphthene	0.042	0.70	
Acenaphthylene	0.042	0.70	
Anthracene	0.035	0.70	
Benzo(a)anthracene	0.029	0.70	
Benzo(a)pyrene	0.026	0.70	
Benzo(b)fluoranthene	0.028	0.70	
Benzo(g,h,i)Perylene	0.037	0.70	
Benzoic acid	0.02	1.6	
Benzyl alcohol	0.06	1.3	
Bis(2-Chloroethoxy)Methane	0.047	0.70	
Bis(2-Chloroethyl)ether	0.041	0.70	
Butylbenzylphthalate	0.031	0.70	
Chrysene	0.041	0.70	
Di-N-Butylphthalate	0.031	0.70	
Di-n-octylphthalate	0.031	0.70	
Dibenzo(a,h)Anthracene	0.039	0.70	
Dibenzofuran	0.043	0.70	
Diethylphthalate	0.049	0.70	
Dimethylphthalate	0.046	0.70	
Fluoranthene	0.028	0.70	
Fluorene	0.044	0.70	
Hexachlorobenzene	0.04	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55494-02

Initial Calibration HPMS4 1-APR-99

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	0.037	0.70	
Hexachlorocyclopentadiene	0.087	0.70	
Hexachloroethane	0.033	0.70	
Indeno(1,2,3-cd)pyrene	0.036	0.70	
Isophorone	0.043	0.70	
N-Nitroso-di-n-propylamine	0.035	0.70	
N-Nitrosodiphenylamine	0.048	0.70	
Naphthalene	0.036	0.70	
Nitrobenzene	0.034	0.70	
Pentachlorophenol	0.02	3.3	
Phenanthrene	0.043	0.70	
Phenol	0.032	0.30	
Pyrene	0.03	0.70	
bis(2-Chloroisopropyl)ether	0.041	0.70	
bis(2-Ethylhexyl)phthalate	0.039	0.70	
p-Nitrophenol	0.057	1.6	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55494-03

Units: mg/kg

Initial Calibration HPMS4 1-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.67	1.31	78.4	34 - 152	
1,2-Dichlorobenzene	1.67	1.23	73.7	32 - 135	
1,3-Dichlorobenzene	1.67	1.18	70.7	26 - 135	
1,4-Dichlorobenzene	1.67	1.19	71.3	25 - 135	
2,4,5-Trichlorophenol	1.67	1.42	85	25 - 175	
2,4,6-Trichlorophenol	1.67	1.35	80.8	29 - 138	
2,4-Dichlorophenol	1.67	1.33	79.6	36 - 135	
2,4-Dimethylphenol	1.67	1.32	79	35 - 149	
2,4-Dinitrophenol	1.67	1.21	72.5	25 - 161	
2,4-Dinitrotoluene	1.67	1.43	85.6	29 - 149	
2,6-Dinitrotoluene	1.67	1.36	81.4	41 - 135	
2-Chloronaphthalene	1.67	1.27	76	50 - 135	
2-Chlorophenol	1.67	1.09	65.3	31 - 135	
2-Methylnaphthalene	1.67	1.28	76.6	31 - 135	
2-Methylphenol	1.67	1.26	75.4	25 - 135	
2-Nitroaniline	1.67	1.48	88.6	40 - 135	
2-Nitrophenol	1.67	1.20	71.9	34 - 135	
3,3'-Dichlorobenzidine	1.67	0	0	25 - 175	*
3-Nitroaniline	1.67	1.31	78.4	41 - 135	
4,6-Dinitro-2-methylphenol	1.67	1.29	77.2	25 - 144	
4-Bromophenyl-phenylether	1.67	1.25	74.9	43 - 137	
4-Chloro-3-methylphenol	1.67	1.46	87.4	34 - 135	
4-Chloroaniline	1.67	0.0893	5.3	35 - 146	*
4-Chlorophenyl-phenyl ether	1.67	1.47	88	41 - 142	

Comments:

507 6610

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55494-03

Units: mg/kg

Initial Calibration HPMS4 1-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	1.67	1.25	74.9	25 - 135	
4-Nitroaniline	1.67	0.962	57.6	30 - 153	
Acenaphthene	1.67	1.33	79.6	39 - 135	
Acenaphthylene	1.67	1.31	78.4	37 - 135	
Anthracene	1.67	1.36	81.4	35 - 175	
Benzo(a)anthracene	1.67	1.50	89.8	41 - 143	
Benzo(a)pyrene	1.67	1.84	110.2	31 - 135	
Benzo(b)fluoranthene	1.67	1.93	115.6	27 - 135	
Benzo(g,h,i)Perylene	1.67	1.84	110.2	25 - 159	
Benzoic acid	1.67	0.638	38.2	25 - 172	
Benzyl alcohol	1.67	1.22	73.1	25 - 135	
Bis(2-Chloroethoxy)Methane	1.67	1.23	73.7	39 - 135	
Bis(2-Chloroethyl)ether	1.67	1.15	68.9	34 - 135	
Butylbenzylphthalate	1.67	1.33	79.6	25 - 135	
Chrysene	1.67	1.44	86.2	45 - 143	
Di-N-Butylphthalate	1.67	1.39	83.2	25 - 136	
Di-n-octylphthalate	1.67	1.69	101.2	28 - 137	
Dibenzo(a,h)Anthracene	1.67	2.09	125.1	40 - 135	
Dibenzofuran	1.67	1.31	78.4	42 - 135	
Diethylphthalate	1.67	1.36	81.4	27 - 135	
Dimethylphthalate	1.67	1.39	83.2	25 - 175	
Fluoranthene	1.67	1.56	93.4	37 - 135	
Fluorene	1.67	1.42	85	38 - 149	
Hexachlorobenzene	1.67	1.61	96.4	36 - 143	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG55692

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55494-03

Units: mg/kg

Initial Calibration HPMS4 1-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	1.67	1.59	95.2	25 - 135	
Hexachlorocyclopentadiene	1.67	1.58	94.6	31 - 135	
Hexachloroethane	1.67	1.22	73.1	25 - 163	
Indeno(1,2,3-cd)pyrene	1.67	1.89	113.2	25 - 170	
Isophorone	1.67	1.54	92.2	25 - 175	
N-Nitroso-di-n-propylamine	1.67	1.37	82	27 - 135	
N-Nitrosodiphenylamine	1.67	1.29	77.2	25 - 135	
Naphthalene	1.67	1.18	70.7	40 - 135	
Nitrobenzene	1.67	1.34	80.2	36 - 143	
Pentachlorophenol	1.67	1.49	89.2	38 - 146	
Phenanthrene	1.67	1.40	83.8	44 - 135	
Phenol	1.67	1.11	66.5	25 - 135	
Pyrene	1.67	1.55	92.8	37 - 146	
bis(2-Chloroisopropyl)ether	1.67	1.19	71.3	26 - 175	
bis(2-Ethylhexyl)phthalate	1.67	1.46	87.4	25 - 139	
p-Nitrophenol	1.67	1.68	100.6	25 - 141	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 87

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration HPMS4 7-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
1,2,4-Trichlorobenzene		1.92	1.56	81.3	1.71	89.1	9.1	34 - 152	30	
1,2-Dichlorobenzene		1.92	1.38	71.9	1.45	75.5	4.9	32 - 135	30	
1,3-Dichlorobenzene		1.92	1.31	68.2	1.43	74.5	8.4	26 - 135	30	
1,4-Dichlorobenzene		1.92	1.37	71.4	1.43	74.5	4.1	25 - 135	30	
2,4,5-Trichlorophenol		1.92	1.68	87.5	1.77	92.2	5.3	25 - 175	30	
2,4,6-Trichlorophenol		1.92	1.56	81.3	1.74	90.6	10.5	29 - 138	30	
2,4-Dichlorophenol		1.92	1.62	84.4	1.75	91.1	7.5	36 - 135	30	
2,4-Dimethylphenol		1.92	1.62	84.4	1.74	90.6	6.8	35 - 149	30	
2,4-Dinitrophenol		1.92	0.464	24.2	0.717	37.3	42.8	25 - 161	30	*
2,4-Dinitrotoluene		1.92	1.64	85.4	1.75	91.1	6.1	29 - 149	30	
2,6-Dinitrotoluene		1.92	1.59	82.8	1.75	91.1	9.7	41 - 135	30	
2-Chloronaphthalene		1.92	1.56	81.3	1.64	85.4	5	50 - 135	30	
2-Chlorophenol		1.92	1.3	67.7	1.39	72.4	6.8	31 - 135	30	
2-Methylnaphthalene		1.92	1.51	78.6	1.62	84.4	7.4	31 - 135	30	
2-Methylphenol		1.92	1.48	77.1	1.6	83.3	7.5	25 - 135	30	
2-Nitroaniline		1.92	1.69	88	1.8	93.8	6.6	40 - 135	30	
2-Nitrophenol		1.92	1.37	71.4	1.52	79.2	10.4	34 - 135	30	
3,3'-Dichlorobenzidine		1.92	0.854	44.5	0.0	0		25 - 175	30	*
3-Nitroaniline		1.92	1.44	75	1.55	80.7	7.7	41 - 135	30	
4,6-Dinitro-2-methylphenol		1.92	0.915	47.7	1.09	56.8	17.3	25 - 144	30	
4-Bromophenyl-phenylether		1.92	1.41	73.4	1.6	83.3	12.2	43 - 137	30	
4-Chloro-3-methylphenol		1.92	1.76	91.7	1.89	98.4	6.9	34 - 135	30	
4-Chloroaniline		1.92	1.06	55.2	0.491	25.6	73.8	35 - 146	30	*
4-Chlorophenyl-phenyl ether		1.92	1.7	88.5	1.79	93.2	5.3	41 - 142	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 87

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration HPMS4 7-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
4-Methylphenol		1.92	1.47	76.6	1.53	79.7	3.8	25 - 135	30	
4-Nitroaniline		1.92	1.44	75	1.32	68.8	8.3	30 - 153	30	
Acenaphthene		1.92	1.52	79.2	1.63	84.9	7.3	39 - 135	30	
Acenaphthylene		1.92	1.59	82.8	1.72	89.6	8.3	37 - 135	30	
Anthracene		1.92	1.56	81.3	1.75	91.1	11.1	35 - 175	30	
Benzo(a)anthracene	0.3	1.92	1.89	82.8	2.01	89.1	6.5	41 - 143	30	
Benzo(a)pyrene	0.26	1.92	2.23	102.6	2.37	109.9	6	31 - 135	30	
Benzo(b)fluoranthene	0.3	1.92	2.52	115.6	2.89	134.9	13.6	27 - 135	30	
Benzo(g,h,i)Perylene	0.13	1.92	0.993	44.9	0.83	36.5	17.9	25 - 159	30	
Benzoic acid		1.92	2.57	133.9	0.443	23.1	141.3	25 - 172	30	*
Benzyl alcohol		1.92	1.32	68.8	1.4	72.9	5.9	25 - 135	30	
Bis(2-Chloroethoxy)Methane		1.92	1.36	70.8	1.44	75	5.8	39 - 135	30	
Bis(2-Chloroethyl)ether		1.92	1.38	71.9	1.43	74.5	3.3	34 - 135	30	
Butylbenzylphthalate		1.92	1.57	81.8	1.48	77.1	6	25 - 135	30	
Chrysene	0.27	1.92	1.71	75	1.83	81.3	6.5	45 - 143	30	
Di-N-Butylphthalate		1.92	1.69	88	1.79	93.2	5.9	25 - 136	30	
Di-n-octylphthalate		1.92	2.21	115.1	2.82	146.9	24.3	28 - 137	30	*
Dibenzo(a,h)Anthracene		1.92	1.45	75.5	1.26	65.6	13.6	40 - 135	30	
Dibenzofuran		1.92	1.6	83.3	1.71	89.1	6.9	42 - 135	30	
Diethylphthalate		1.92	1.62	84.4	1.74	90.6	6.8	27 - 135	30	
Dimethylphthalate		1.92	1.6	83.3	1.75	91.1	8.9	25 - 175	30	
Fluoranthene	0.49	1.92	1.78	67.2	2.03	80.2	13.3	37 - 135	30	
Fluorene		1.92	1.6	83.3	1.7	88.5	6.3	38 - 149	30	
Hexachlorobenzene		1.92	1.77	92.2	1.89	98.4	6.3	36 - 143	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG55692

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 87

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration HPMS4 7-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Hexachlorobutadiene		1.92	1.84	95.8	1.97	102.6	6.6	25 - 135	30	
Hexachlorocyclopentadiene		1.92	1.45	75.5	1.48	77.1	2.4	31 - 135	30	
Hexachloroethane		1.92	1.39	72.4	1.54	80.2	10.2	25 - 163	30	
Indeno(1,2,3-cd)pyrene	0.14	1.92	1.26	58.3	1.1	50	14.1	25 - 170	30	
Isophorone		1.92	1.76	91.7	1.95	101.6	10.5	25 - 175	30	
N-Nitroso-di-n-propylamine		1.92	1.51	78.6	1.62	84.4	7.4	27 - 135	30	
N-Nitrosodiphenylamine		1.92	1.61	83.9	1.78	92.7	10.2	25 - 135	30	
Naphthalene		1.92	1.39	72.4	1.47	76.6	5.6	40 - 135	30	
Nitrobenzene		1.92	1.53	79.7	1.69	88	10	36 - 143	30	
Pentachlorophenol		1.92	1.28	66.7	1.56	81.3	20.2	38 - 146	30	
Phenanthrene	0.18	1.92	1.7	79.2	1.9	89.6	10.9	44 - 135	30	
Phenol		1.92	1.3	67.7	1.41	73.4	8.5	25 - 135	30	
Pyrene	0.42	1.92	1.74	68.8	1.77	70.3	2	37 - 146	30	
bis(2-Chloroisopropyl)ether		1.92	1.43	74.5	1.56	81.3	9.2	26 - 175	30	
bis(2-Ethylhexyl)phthalate		1.92	1.74	90.6	1.68	87.5	3.4	25 - 139	30	
p-Nitrophenol		1.92	1.83	95.3	2.02	105.2	10.1	25 - 141	30	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C AAB#: WG55692

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SFU0108AA	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	
S13SFU0108AA/MS	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	
S13SFU0108AA/MSD	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	
S13SFU0208AA	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	
S13SFU0208AA/DUP	1-Apr-99	2-Apr-99	5-Apr-99	14	4	6-Apr-99	40	1	

Comments:

Forms by ChemSW(707)864-0645;v1.0;12/1/97

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/1/99 Column ID DB5 Analyst MLS SOP # MSS01 Rev. # 7 8270C

Instrument ID HP5973 Data Subdirectory 040199 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	✓

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13033	WG55182-01 50ppm DFTPP 540-26	1	DFTPP	✓	
34	-02 50ppm BNA 510 540-35-04		BNA		
35	-03 4ppm -01				
36	-04 10ppm -02				
37	-05 20ppm -03				
38	-06 80ppm -05				
39	-07 100ppm -06				
40	-08 120ppm -07				
41	-09 140ppm -08				
42	-10 50ppm AK BNA 540-14				
43	-11 50ppm DFTPP 540-26		DFTPP		
44	-12 50ppm BNA 510 540-35-04		BNA		
45	BLK 3/31/99 V112 P115				

Comments

Reviewed By: EC 4/2/99

✓ = Compliant Analysis, Reanalysis complete

RR = Reruns

RR# = Reruns at a specified level

SMI = Sa atrix interference

MI = Me ne, beyond method tuning requirements

RI = Re-extraction analysis

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 668

Date 4/6/99 Column ID DB5 Analyst MS SOP # MSS01 Rev. # 7 8270C
Instrument ID HP5972 Data Subdirectory 040699 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13100	WG55568-01 50ppm DFTPP 540-26	1	DFTPP	✓	
01	-02 50ppm BNA STD 540-35-04		BNA		
02	1990346-15 Soil				
03	-16				
04	-17				
05	-18				
06	-19				
07	-20 (MS/MSD)				
08	WG55494-02 ~~BKS~~ BLK 4/5/99 V112P151				
09	-03 LCS				
10	1990404-25 20x Soil	20			* All samples diluted for thick, Black Matrix
11	-27				
12	-29 MS 4/7/99 ~~-28~~				

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
SMI = Sample matrix interference

Reviewed By: [signature] 44

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/6/99 Instrument ID HP5M54 Data Subdirectory 040699 Column ID DB-5

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13113	L9904049-31 20x Soil	20	BNA	✓	
14	-33				
15	-35				
16	-37				
17	-39				
18	-43				
19	CH_2Cl_2	1			

GMS 4/7/99

Comments:

Reviewed By: ark 4/12/99

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards
SMI = Sample matrix interference
MIT = Missed Time, beyond method hold requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 670

Date 4/7/99 Column ID DB-5 Analyst MLS
Instrument ID HP5973 Data Subdirectory 040799

SOP # MSS01 Rev. # 7 8270
SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___

Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4m13120	W655645-01 50ppm OFPP 540-26	OFPP			
21	-02 50ppm BNA STD 540-35-04	BNA			
22	-03 4ppm -01				
23	-04 10ppm -02				
24	-05 20ppm -03				
25	-06 80ppm -05				
26	-07 100ppm -06				
27	-08 120ppm -07				
28	-09 140ppm -08				
29	-10 50ppm BNA PIT 540-B				
			MLS 4/8/99		

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
SMI = Sample matrix interference

Reviewed By: [signature] 4/8/99

507 671

Page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 4/9/99 Column ID DB35 Analyst [illegible] SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP4454 Data Subdirectory 040999 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
4M13130	WG55730-01 50PPM DFTPP	1	DFTPP	✓	S40-26
13131	WG55730-02 50PPM BNA SID		BNA	✓	S40-35-4
13132	LA904064-06 SOIL				SS high-remix/18
13133	-12			✓	
13134	-13			✓	
13135	-23			✓	
13136	-25			✓	
13137	-26			✓	
13138	-27			✓	
13139	-03	2		✓	
13140	-04 MS WG55692-01	2		✓	
13141	-05 MSD - 1 -05	2		✓	
13142	-22	2		✓	

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun

SMI = [illegible]ple matrix interference
MT = Missed Tune, [illegible]

Reviewed By: [illegible] 4/12/99

54

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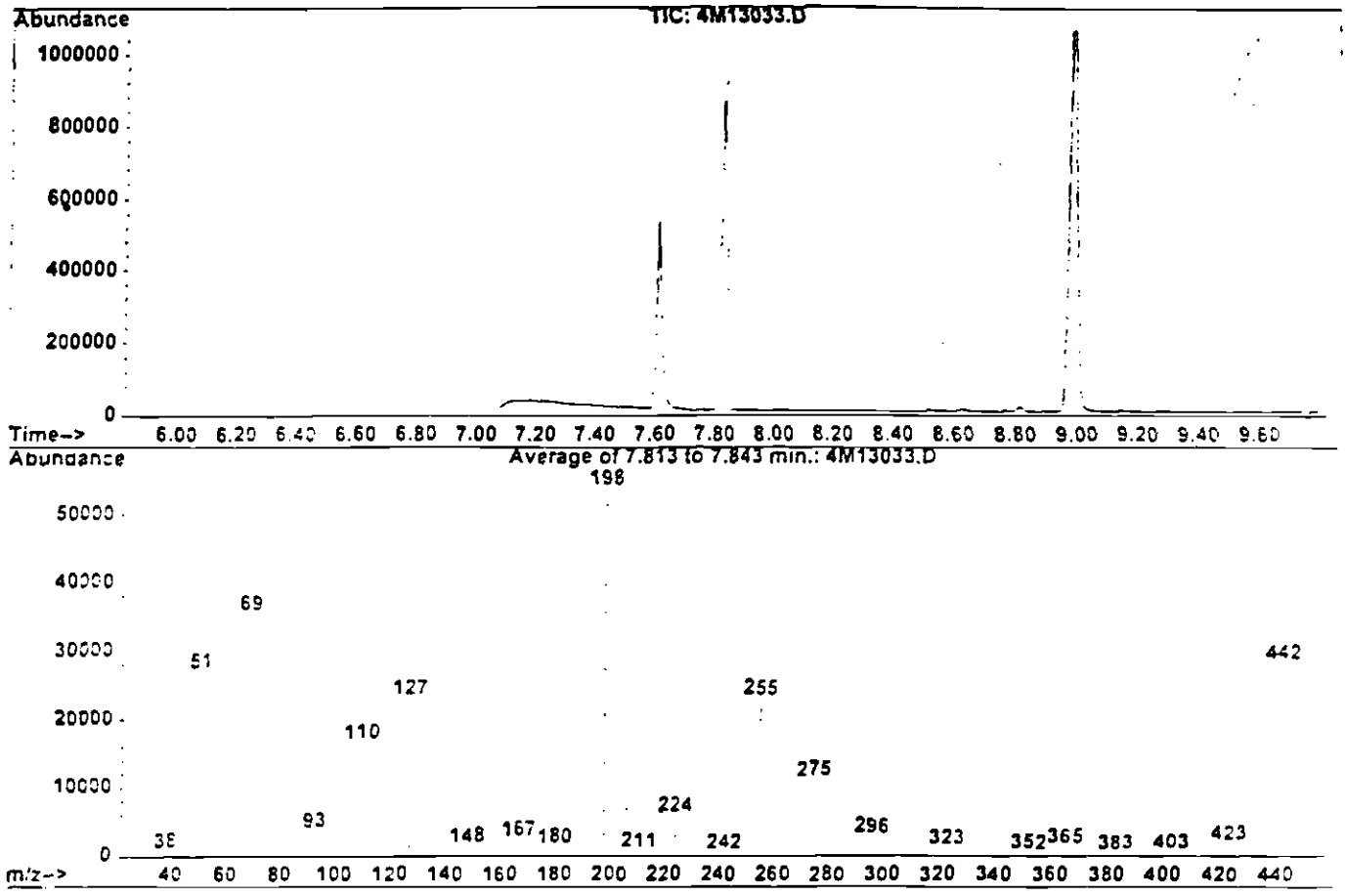
Data File : C:\HPCHEM\1\DATA\040199\4M13033.D
Acq On : 1 Apr 1999 10:09
Sample : WG55182-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: MLS
Inst : HPMS4
Multiplr: 1.00

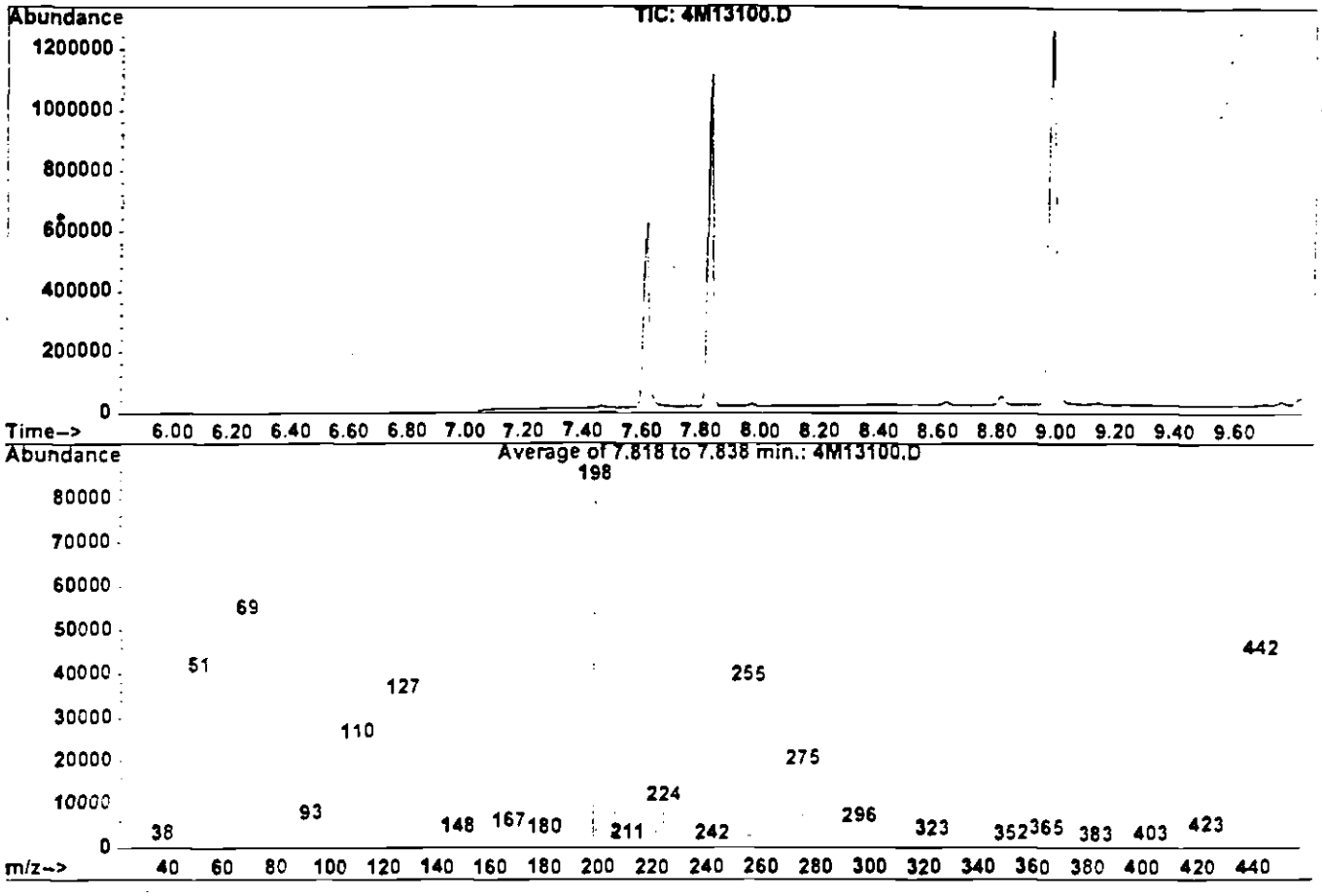


Spectrum Information: Average of 7.813 to 7.843 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.7	26817	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	65.2	35158	PASS
70	69	0.00	2	0.5	183	PASS
127	198	40	60	42.5	22926	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	53943	PASS
199	198	5	9	6.7	3640	PASS
275	198	10	30	20.1	10828	PASS
365	198	1	100	2.0	1086	PASS
441	443	0.01	100	76.7	4159	PASS
442	198	40	100	52.1	28090	PASS
443	442	17	23	19.3	5424	PASS

Data File : C:\HPCHEM\1\DATA\040699\4M13100.D
Acq On : 6 Apr 1999 10:45
Sample : WG55568-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: MLS
Inst : HPMS4
Multiplr: 1.00



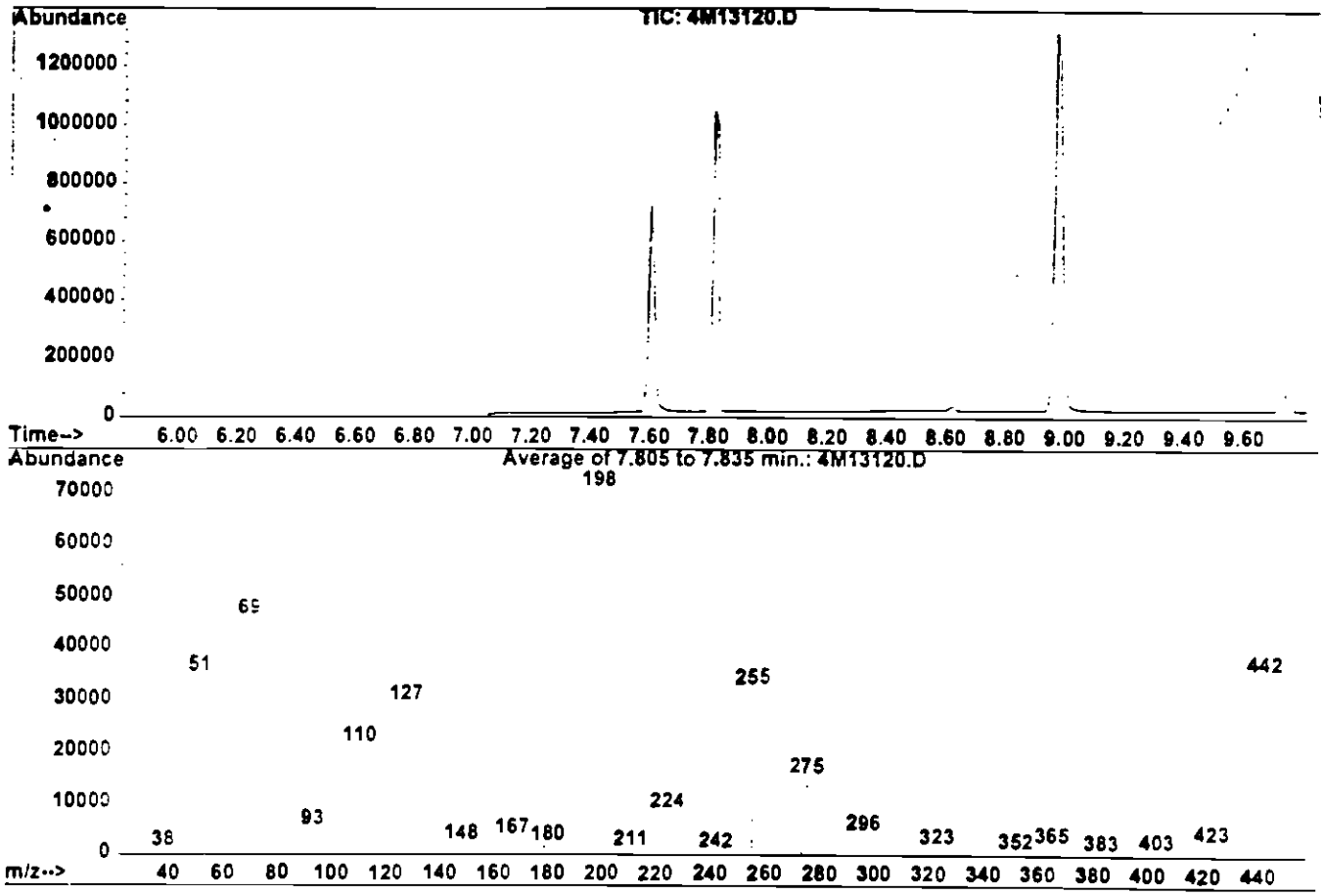
Spectrum Information: Average of 7.818 to 7.838 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	39193	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	62.8	52302	PASS
70	69	0.00	2	0.4	199	PASS
127	198	40	60	40.9	34064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83269	PASS
199	198	5	9	6.8	5701	PASS
275	198	10	30	21.2	17663	PASS
365	198	1	100	2.0	1689	PASS
441	443	0.01	100	78.2	6451	PASS
442	198	40	100	51.6	42974	PASS
443	442	17	23	19.2	8246	PASS

Data File : C:\HPCHEM\1\DATA\040799\4M13120.D
Acq On : 7 Apr 1999 13:03
Sample : WG55645-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: MLS
Inst : HPMS4
Multiplr: 1.00

50



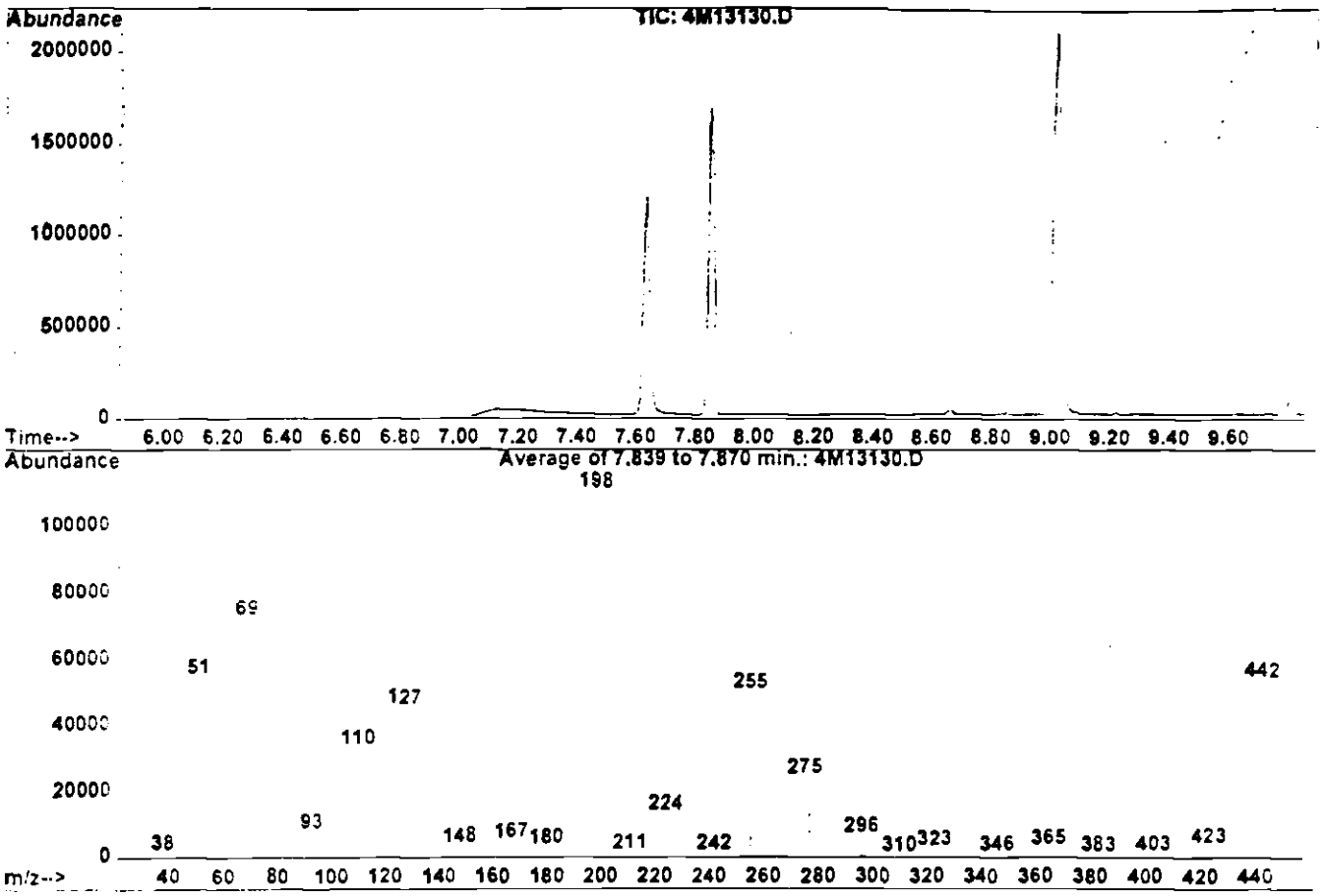
Spectrum Information: Average of 7.805 to 7.835 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.6	34441	PASS
68	69	0.00	2	0.3	134	PASS
69	198	0.00	100	64.4	45611	PASS
70	69	0.00	2	0.4	182	PASS
127	198	40	60	40.8	28904	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	70820	PASS
199	198	5	9	6.8	4836	PASS
275	198	10	30	21.2	15042	PASS
365	198	1	100	2.2	1562	PASS
441	443	0.01	100	79.1	5311	PASS
442	198	40	100	49.4	34998	PASS
443	442	17	23	19.2	6718	PASS

507 671

Data File : C:\HPCHEM\1\DATA\040999\4M13130.D
Acq On : 9 Apr 1999 8:08
Sample : WG55730-01 50PPM DFTPP S40-26
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Average of 7.839 to 7.870 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.7	53983	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	64.6	71594	PASS
70	69	0.00	2	0.5	327	PASS
127	198	40	60	40.2	44546	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	110876	PASS
199	198	5	9	6.6	7334	PASS
275	198	10	30	21.1	23402	PASS
365	198	1	100	2.2	2445	PASS
441	443	0.01	100	78.9	8024	PASS
442	198	40	100	47.8	53024	PASS
443	442	17	23	19.2	10173	PASS

VOCs QA/QC

FPM

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SFU0108AA	L9904068-05
S13SFU0108AA/MS	L9904068-06
S13SFU0108AA/MSD	L9904068-07
S13SFU0208AA	L9904068-08
S13SFU0208AA/DUP	L9904068-09

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 27-APR-99

Title: Laboratory Manager

Order #99-04-068
April 16, 1999 13:20

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

VOLATILES - 8260:

The "R" flags associated with this Sample Delivery Group (SDG) were for the following reasons:

Analysis Date	Instrument	Matrix	Analyte	Description
04/06/99	HPMS 9	Water	Dibromochloromethane	MDL > ½ RDL
			2,2-Dichloropropane	Calibration verification exceeded CL (High)
			1,1,1-Trichloroethane	"
			Carbon tetrachloride	"
			Bromoform	"
			n-Butylbenzene	Calibration verification exceeded CL (Low)
			Hexachlorobutadiene	"
			Naphthalene	"
			1,2,3-Trichlorobenzene	"
			Dichlorodifluoromethane	LCS % R < LCL
			s-Butylbenzene	"
			n-Butylbenzene	"
			Hexachlorobutadiene	"
04/09/99	HPMS 6	Soil	Dichlorodifluoromethane	CL exceeded (Low)
			1-Chlorohexane	LCS % R < LCL

Several MS/MSD and/or RPD's exceeded control limits. All MS/MSD and/or RPD outliers were qualified accordingly.

SEMIVOLATILE ORGANICS - 8270:

The batch LCS, MS, and MSD yielded % recoveries for several analytes that were outside advisory limits. The second source standard failed to meet criteria for benzoic acid, 2,4-dinitrophenol, and pentachlorophenol. One CCV standard failed to meet criteria for benzo(ghi)perylene. Sample fraction 01 yielded a % recovery for d5-phenol that was outside acceptable limits. All results have been appropriately flagged.

PESTICIDES - 8081:

The LCS yielded % recoveries for endrin aldehyde and toxaphene that was outside advisory limits. Toxaphene was above limits. All results have been appropriately flagged.

HERBICIDES - 8151:

The batch LCS yielded a % recovery for dalapon that was outside advisory limits. All results have been appropriately flagge

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Calibration Table Report
Method: AF98SL.M
Title: Method 8260B_SOIL - ICAL 04/08/99 HPMS 6
Last Calibration: Thu Apr 08 12:37:16 1999

Calibration Files

Compound	2 (04130816.D)	5 (04130815.D)	10 (04130814.D)	20 (04130813.D)	50 (04130812.D)	100 (04130817.D)	Avg	%RSD	
Fluorobenzene	ISTD								
Dichlorodifluoromethane	0.203	0.216	0.258	0.254	0.238	0.229	0.233	9.240	
Chloromethane	0.198	0.199	0.207	0.205	0.199	0.196	0.201	2.306	
Vinyl Chloride	0.127	0.133	0.146	0.136	0.130	0.125	0.133	5.665	
Bromomethane	0.116	0.109	0.112	0.110	0.107	0.101	0.109	4.695	
Chloroethane	0.089	0.094	0.101	0.100	0.097	0.097	0.096	4.571	
Trichlorofluoromethane	0.393	0.416	0.492	0.506	0.477	0.456	0.457	9.745	
Isoprene	0.211	0.262	0.352	0.355	0.372	0.367	0.320	20.926	LR,F
Acrolein							0.000	0.000	
1,1,2-Trichloro-1,2,2-Trifluoroet	0.212	0.231	0.279	0.284	0.265	0.255	0.254	11.059	
Acetone		0.104	0.089	0.071	0.070	0.060	0.079	22.310	LR,F
1,1-Dichloroethene	0.165	0.191	0.230	0.231	0.237	0.234	0.215	13.875	
Dimethyl Sulfide	0.139	0.199	0.227	0.246	0.265	0.259	0.222	21.394	LR,F
Iodomethane		0.083	0.119	0.151	0.193	0.207	0.151	34.178	LR,F
Methylene Chloride	0.408	0.289	0.270	0.243	0.230	0.228	0.279	23.916	LR,F
Carbon Disulfide	0.775	0.782	0.872	0.843	0.843	0.808	0.820	4.712	
Acrylonitrile	0.055	0.058	0.065	0.061	0.070	0.064	0.062	8.615	
Methyl Tert Butyl Ether	0.407	0.455	0.512	0.525	0.583	0.532	0.502	12.491	
trans-1,2-Dichloroethene	0.205	0.220	0.245	0.240	0.246	0.242	0.233	7.212	
n-Hexane	0.347	0.354	0.441	0.372	0.397	0.373	0.380	9.019	
Vinyl Acetate	0.196	0.215	0.257	0.278	0.315	0.299	0.260	18.086	LR,F
1,1-Dichloroethane	0.394	0.413	0.446	0.435	0.446	0.433	0.428	4.788	
2-Butanone		0.073	0.080	0.078	0.090	0.081	0.080	7.689	
2,2-Dichloropropane	0.307	0.321	0.374	0.379	0.395	0.384	0.360	10.107	
cis-1,2-Dichloroethene	0.202	0.226	0.257	0.258	0.268	0.259	0.245	10.358	
Chloroform	0.398	0.405	0.433	0.410	0.432	0.414	0.417	3.386	
Bromochloromethane	0.096	0.103	0.113	0.111	0.115	0.111	0.108	6.735	
Dibromofluoromethane	0.246	0.238	0.253	0.256	0.257	0.245	0.249	2.987	
1,1,1-Trichloroethane	0.347	0.360	0.415	0.410	0.420	0.404	0.392	7.884	
Cyclohexane	0.263	0.329	0.444	0.416	0.435	0.421	0.385	18.799	LR,F
1,1-Dichloropropene	0.224	0.264	0.316	0.319	0.327	0.321	0.295	14.157	
Carbon Tetrachloride	0.300	0.323	0.382	0.383	0.393	0.383	0.361	10.810	
1,2-Dichloroethane-d4	0.277	0.252	0.263	0.256	0.263	0.241	0.259	4.598	
1,2-Dichloroethane	0.283	0.292	0.313	0.299	0.316	0.293	0.299	4.236	
Benzene	0.821	0.877	0.947	0.926	0.942	0.912	0.904	5.307	
Trichloroethene	0.208	0.229	0.259	0.262	0.271	0.264	0.249	9.896	
1,2-Dichloropropane	0.194	0.207	0.225	0.224	0.233	0.225	0.218	6.608	
Bromodichloromethane	0.261	0.276	0.299	0.295	0.314	0.299	0.291	6.540	
Dibromomethane	0.125	0.121	0.130	0.125	0.132	0.123	0.126	3.240	
2-Chloroethyl Vinyl Ether	0.045	0.055	0.074	0.080	0.088	0.059	0.067	24.483	QR,F
4-Methyl-2-Pentanone		0.052	0.064	0.065	0.076	0.067	0.065	13.228	LR,F
cis-1,3-Dichloropropene	0.234	0.275	0.315	0.327	0.353	0.339	0.3064	14.404	
Dimethyl Disulfide	0.099	0.134	0.166	0.189	0.215	0.204	0.1678	26.597	LR,F
Chlorobenzene-d5	ISTD								
Toluene-d8	0.996	1.056	1.188	1.189	1.171	1.122	1.1705	7.0833	
Toluene	1.22	1.272	1.387	1.354	1.361	1.31	1.3175	4.7552	
Ethyl Methacrylate	0.201	0.258	0.295	0.32	0.37	0.341	0.2976	20.447	LR,F
trans-1,3-Dichloropropene	0.349	0.389	0.432	0.432	0.46	0.432	0.4157	9.5935	
1,1,2-Trichloroethane	0.219	0.235	0.248	0.239	0.247	0.231	0.2366	4.6368	
2-Hexanone	0.121	0.128	0.161	0.166	0.198	0.176	0.1583	18.51	
1,3-Dichloropropane	0.377	0.391	0.427	0.412	0.434	0.405	0.4077	5.3969	
Tetrachloroethene	0.246	0.27	0.305	0.301	0.304	0.292	0.2865	8.268	
Dibromochloromethane	0.262	0.279	0.303	0.301	0.326	0.307	0.2964	7.6138	
1,2-Dibromoethane	0.212	0.222	0.237	0.237	0.255	0.238	0.2334	6.3256	
1-Chlorohexane	0.217	0.343	0.444	0.433	0.474	0.463	0.3954	25.062	LR,F
Chlorobenzene	0.872	0.876	0.924	0.9	0.907	0.863	0.8903	2.6473	
1,1,1,2-Tetrachloroethane	0.285	0.308	0.331	0.325	0.339	0.318	0.3176	6.05	
Ethylb[illegible]	0.398	0.44	0.493	0.49	0.489	0.471	0.4636	8.1[illegible]	

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m-,p-Xylene	0.5	0.552	0.604	0.599	0.601	0.571	0.5712	7.0891
o-Xylene	0.409	0.493	0.557	0.564	0.581	0.564	0.5201	12.446
Styrene	0.669	0.802	0.904	0.919	0.973	0.961	0.868	13.044
Bromoform	0.164	0.185	0.204	0.201	0.225	0.211	0.1984	10.661
Isopropylbenzene	0.943	1.192	1.4	1.437	1.481	1.441	1.3157	15.92 LR,F
1,4-Dichlorobenzene-d4	ISTD							
1,1,2,2-Tetrachloroethane	0.591	0.576	0.624	0.576	0.599	0.549	0.5857	4.3027
p-Bromofluorobenzene	0.849	0.818	0.867	0.876	0.86	0.81	0.8468	3.1888
1,2,3-Trichloropropane	0.183	0.184	0.194	0.183	0.189	0.171	0.1841	4.2511
trans-1,4-Dichloro-2-Butene	0.15	0.165	0.18	0.18	0.199	0.176	0.175	9.3423
n-Propylbenzene	2.469	2.969	3.266	3.252	3.194	3.089	3.0398	9.9011
Bromobenzene	0.663	0.685	0.736	0.721	0.73	0.691	0.7045	4.0722
1,3,5-Trimethylbenzene	1.55	1.925	2.137	2.151	2.173	2.118	2.0089	12.044
2-Chlorotoluene	1.727	1.934	2.08	1.993	2.037	1.903	1.9456	6.4316
4-Chlorotoluene	1.747	1.954	2.017	2.041	1.982	1.959	1.9501	5.3756
a-Methylstyrene	0.76	0.981	1.111	1.147	1.265	1.24	1.0843	17.362 LR,F
tert-Butylbenzene	1.597	1.86	1.98	1.975	1.96	1.928	1.8832	7.8155
1,2,4-Trimethylbenzene	1.799	2.044	2.19	2.162	2.196	2.118	2.0851	7.2312
sec-Butylbenzene	2.059	2.524	2.707	2.76	2.757	2.711	2.5863	10.538
p-Isopropyltoluene	1.685	2.063	2.23	2.291	2.325	2.315	2.1516	11.529
1,3-Dichlorobenzene	1.268	1.325	1.366	1.339	1.339	1.292	1.3216	2.6841
1,4-Dichlorobenzene	1.345	1.37	1.402	1.362	1.36	1.303	1.3569	2.3902
n-Butylbenzene	1.692	1.958	1.975	2.02	2.046	2.027	1.9529	6.775
1,2-Dichlorobenzene	1.115	1.184	1.211	1.2	1.207	1.163	1.1799	3.0932
1,2-Dibromo-3-Chloropropane	0.096	0.107	0.12	0.118	0.135	0.121	0.1161	11.265
1,2,4-Trichlorobenzene	0.749	0.764	0.724	0.756	0.755	0.722	0.7452	2.3758
Hexachlorobutadiene	0.368	0.416	0.355	0.375	0.37	0.375	0.3764	5.4639
Naphthalene	1.496	1.414	1.499	1.535	1.557	1.377	1.4798	4.7288
1,2,3-Trichlorobenzene	0.677	0.674	0.647	0.68	0.672	0.639	0.6649	2.6225

Thu Apr 08 14:52:54 1999

LR,F=LINEAR REGRESSION, FORCED THROUGH THE ORIGIN
QR,F=QUADRADIC REGRESSION, FORCED THROUGH THE ORIGIN

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

507 681

Analytical Method: 8260B | AAB#: WG55760

Lab Name: Kemron Environmental Services | Contract #: F41624-95-D-8003-0023

Instrument ID: HPMS6 | Initial Calibration ID: HPMS6 8-APR-99

2nd Source ID: ALT HPMS6 8-APR-99

Analyte	% D	Q
Chloromethane *	-10.42	
1,1-DCA *	7.87	
Bromoform *	10.54	
Chlorobenzene *	6.34	
1,1,2,2-TCA *	14.29	
1,1-DCE #	3.19	
Chloroform #	9.77	
1,2-DCP #	11.09	
Toluene #	11.44	
Ethylbenzene #	12.51	
Vinyl chloride #	-0.77	
1,1,1,2-Tetrachloroethane	10.87	
1,1,1-TCA	9.68	
1,1,2-TCA	14.71	
1,1-Dichloropropene	23.36	
1,2,3-Trichlorobenzene	7.32	
1,2,3-Trichloropropane	17.03	
1,2,4-Trichlorobenzene	4.57	
1,2,4-Trimethylbenzene	11.31	
1,2-DCA	10.78	
1,2-DCB	8.04	
1,2-Dibromo-3-chloropropane	19.57	
1,2-EDB	12.40	
1,3,5-Trimethylbenzene	13.23	
1,3-DCB	5.83	
1,3-Dichloropropane	13.54	
1,4-DCB	4.81	
1-Chlorohexane	-48.80	*
2,2-Dichloropropane	11.53	
2-Chlorotoluene	11.51	
4-Chlorotoluene	8.94	
Benzene	10.16	
Bromobenzene	6.00	
Bromochloromethane	9.60	
Bromodichloromethane	11.50	
Bromomethane	16.65	
Carbon Tetrachloride	11.58	
Chloroethane	5.55	
Cis-1,2-DCE	9.47	
Cis-1,3-Dichloropropene	18.62	
Dibromochloromethane	12.30	
Dibromomethane	10.72	
Dichlorodifluoromethane	-30.91	*
Hexachlorobutadiene	9.67	
Isopropylbenzene	3.42	
m+p-Xylene	10.81	
Methylene chloride	11.14	
n-Butylbenzene	15.82	
n-Propylbenzene	13.88	
Naphthalene	9.95	
o-Xylene	12.21	
Sec-Butylbenzene	12.38	
Styrene	12.98	
TCE	8.08	
Tert-butylbenzene	7.55	
Tetrachloroethene	9.05	
Trans-1,2-DCE	13.88	
Trans-1,3-Dichloropropene	10.36	
Trichlorofluoromethane	-0.77	

Comments:

C:\HPCHEM\1\DATA\040999\6M13022.D Vial: 2
Acq On : 9 Apr 1999 8:58 Operator: CMS
Sample : WG55760-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98SL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 04/08/99
Last Update : Thu Apr 08 12:37:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(mi
1	I	Fluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	51.565	-3.1	95	0.00
3	P	Chloromethane	50.000	53.985	-8.0	102	0.00
4	C	Vinyl Chloride	50.000	52.774	-5.5	101	-0.01
5	T	Bromomethane	50.000	53.849	-7.7	103	0.00
6	T	Chloroethane	50.000	54.564	-9.1	101	-0.01
7	T	Trichlorofluoromethane	50.000	51.764	-3.5	93	-0.01
8	T	Isoprene	50.000	50.188	-0.4	93	-0.01
9	T	Acrolein	-1.000	0.000	0.0	0	-0.12
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	52.878	-5.8	95	-0.02
11	T	Acetone	50.000	57.160	-14.3	96	0.00
12	C	1,1-Dichloroethene	50.000	55.741	-11.5	95	-0.01
13	T	Dimethyl Sulfide	50.000	50.099	-0.2	92	0.00
14	T	Iodomethane	50.000	44.998	10.0	88	0.00
15	T	Methylene Chloride	50.000	52.166	-4.3	95	0.00
16	T	Carbon Disulfide	50.000	51.982	-4.0	95	0.00
17	T	Acrylonitrile	50.000	58.731	-17.5	98	0.00
18	T	Methyl Tert Butyl Ether	50.000	55.470	-10.9	90	0.00
19	T	trans-1,2-Dichloroethene	50.000	53.891	-7.8	96	0.00
20	T	n-Hexane	50.000	51.776	-3.6	93	0.00
21	T	Vinyl Acetate	50.000	51.651	-3.3	93	-0.01
22	P	1,1-Dichloroethane	50.000	53.538	-7.1	96	0.00
23	T	2-Butanone	50.000	57.412	-14.8	97	0.00
24	T	2,2-Dichloropropane	50.000	54.027	-8.1	92	0.00
25	T	cis-1,2-Dichloroethene	50.000	55.049	-10.1	95	0.00
26	C	Chloroform	50.000	51.758	-3.5	94	0.00
27	T	Bromochloromethane	50.000	52.749	-5.5	93	-0.01
28	S	Dibromofluoromethane	50.000	52.187	-4.4	95	0.00
29	T	1,1,1-Trichloroethane	50.000	53.188	-6.4	93	0.00
30	T	Cyclohexane	50.000	52.088	-4.2	95	0.00
31	T	1,1-Dichloropropene	50.000	56.450	-12.9	96	0.00
32	T	Carbon Tetrachloride	50.000	53.602	-7.2	92	-0.01
33	S	1,2-Dichloroethane-d4	50.000	51.846	-3.7	96	0.00
34	T	1,2-Dichloroethane	50.000	52.412	-4.8	93	0.00
35	T	Benzene	50.000	53.719	-7.4	97	0.00
36	T	Trichloroethene	50.000	53.423	-6.8	92	0.00
37	C	1,2-Dichloropropane	50.000	54.682	-9.4	96	0.00
38	T	Bromodichloromethane	50.000	53.857	-7.7	94	0.00
39	T	Dibromomethane	50.000	52.752	-5.5	95	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	58.840	-17.7	93	0.00
41	T	4-Methyl-2-Pentanone	50.000	59.899	-19.8	96	0.00

(#) = Out of Range
6M13022.D AF98SL.M Mon Apr 12 13:16:52 1999 HPMS_6 Page 1

8507682

Data File : C:\HPCHEM\1\DATA\040999\6M13022.D Vial: 2
Acq On : 9 Apr 1999 8:58 Operator: CMS
Sample : WG55760-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98SL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 04/08/99
Last Update : Thu Apr 08 12:37:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(mi
42	T	cis-1,3-Dichloropropene	50.000	57.951	-15.9	94	0.00
43	T	Dimethyl Disulfide	50.000	50.867	-1.7	91	0.00
44	I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
45	S	Toluene-d8	50.000	55.022	-10.0	98	0.00
46	C	Toluene	50.000	53.389	-6.8	96	0.00
47	T	Ethyl Methacrylate	50.000	53.782	-7.6	94	-0.01
48	T	trans-1,3-Dichloropropene	50.000	56.242	-12.5	95	0.00
49	T	1,1,2-Trichloroethane	50.000	53.656	-7.3	96	0.00
50	T	2-Hexanone	50.000	57.569	-15.1	97	0.00
51	T	1,3-Dichloropropane	50.000	55.011	-10.0	96	0.00
52	T	Tetrachloroethene	50.000	53.761	-7.5	95	-0.01
53	T	Dibromochloromethane	50.000	54.764	-9.5	93	0.00
54	T	1,2-Dibromoethane	50.000	54.807	-9.6	94	0.00
55	T	1-Chlorohexane	50.000	51.854	-3.7	95	0.00
56	P	Chlorobenzene	50.000	51.788	-3.6	95	0.
57	T	1,1,1,2-Tetrachloroethane	50.000	53.454	-6.9	94	0.
58	C	Ethylbenzene	50.000	54.809	-9.6	97	0.00
59	T	m-,p-Xylene	100.000	108.511	-8.5	96	0.00
60	T	o-Xylene	50.000	56.347	-12.7	96	-0.01
61	T	Styrene	50.000	57.304	-14.6	95	0.00
62	P	Bromoform	50.000	57.130	-14.3	94	-0.01
63	T	Isopropylbenzene	50.000	52.803	-5.6	96	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	52.701	-5.4	98	0.00
66	S	p-Bromofluorobenzene	50.000	53.607	-7.2	100	0.00
67	T	1,2,3-Trichloropropane	50.000	52.150	-4.3	96	-0.01
68	T	trans-1,4-Dichloro-2-Butene	50.000	55.432	-10.9	93	-0.01
69	T	n-Propylbenzene	50.000	53.883	-7.8	98	-0.01
70	T	Bromobenzene	50.000	50.865	-1.7	93	0.00
71	T	1,3,5-Trimethylbenzene	50.000	54.233	-8.5	95	-0.01
72	T	2-Chlorotoluene	50.000	52.872	-5.7	96	-0.01
73	T	4-Chlorotoluene	50.000	51.697	-3.4	97	-0.01
74	T	a-Methylstyrene	50.000	50.301	-0.6	94	-0.01
75	T	tert-Butylbenzene	50.000	52.825	-5.7	97	0.00
76	T	1,2,4-Trimethylbenzene	50.000	52.888	-5.8	96	-0.01
77	T	sec-Butylbenzene	50.000	54.882	-9.8	98	-0.01
78	T	p-Isopropyltoluene	50.000	55.023	-10.0	97	0.00
79	T	1,3-Dichlorobenzene	50.000	50.802	-1.6	95	-0.01
80	T	1,4-Dichlorobenzene	50.000	50.396	-0.8	96	-0.01

(#) = Out of Range

Acq On : 9 Apr 1999 8:58 Operator: CMS
Sample : WG55760-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98SL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 04/08/99
Last Update : Thu Apr 08 12:37:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(mi
81	T	n-Butylbenzene	50.000	54.559	-9.1	99	-0.01
82	T	1,2-Dichlorobenzene	50.000	51.262	-2.5	95	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	57.647	-15.3	95	0.00
84	T	1,2,4-Trichlorobenzene	50.000	51.064	-2.1	96	-0.01
85	T	Hexachlorobutadiene	50.000	52.930	-5.9	103	0.00
86	T	Naphthalene	50.000	52.757	-5.5	95	0.00
87	T	1,2,3-Trichlorobenzene	50.000	51.115	-2.2	96	0.00

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AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55760-03

Initial Calibration HPMS6 8-APR-99

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.0002	0.003	
1,1,1-Trichloroethane	0.00018	0.004	
1,1,2,2-Tetrachloroethane	0.00012	0.002	
1,1,2-Trichloroethane	0.00017	0.005	
1,1-Dichloroethane	0.00015	0.002	
1,1-Dichloroethene	0.00012	0.006	
1,1-Dichloropropene	0.000076	0.005	
1,2,3-Trichlorobenzene	0.00033	0.002	
1,2,3-Trichloropropane	0.00019	0.02	
1,2,4-Trichlorobenzene	0.00027	0.002	
1,2,4-Trimethylbenzene	0.00013	0.007	
1,2-Dibromo-3-chloropropane	0.00035	0.01	
1,2-Dibromoethane	0.00012	0.003	
1,2-Dichlorobenzene	0.00015	0.002	
1,2-Dichloroethane	0.00016	0.003	
1,2-Dichloropropane	0.000097	0.002	
1,3,5-Trimethylbenzene	0.000092	0.003	
1,3-Dichlorobenzene	0.00019	0.006	
1,3-Dichloropropane	0.00012	0.002	
1,4-Dichlorobenzene	0.00015	0.002	
1-Chlorohexane	0.000044	0.003	
2,2-Dichloropropane	0.00012	0.02	
2-Chlorotoluene	0.00014	0.002	
4-Chlorotoluene	0.00014	0.003	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55760-03

Initial Calibration HPMS6 8-APR-99

Analyte	Method Blank	RL	Q
Benzene	0.00012	0.002	
Bromobenzene	0.00015	0.002	
Bromochloromethane	0.00011	0.002	
Bromodichloromethane	0.00012	0.004	
Bromoform	0.00016	0.006	
Bromomethane	0.00035	0.005	
Carbon tetrachloride	0.00017	0.01	
Chlorobenzene	0.00018	0.002	
Chloroethane	0.00046	0.005	
Chloroform	0.00016	0.002	
Chloromethane	0.00034	0.007	
Dibromochloromethane	0.00014	0.003	
Dibromomethane	0.00015	0.01	
Dichlorodifluoromethane	0.00031	0.005	
Ethylbenzene	0.00014	0.003	
Hexachlorobutadiene	0.00026	0.005	
Isopropylbenzene	0.000075	0.008	
Methylene chloride	0.00094	0.002	
Naphthalene	0.0009	0.002	
Styrene	0.000074	0.002	
Tetrachloroethene	0.00021	0.007	
Toluene	0.00025	0.005	
Trichloroethene	0.00018	0.01	
Trichlorofluoromethane	0.00028	0.004	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG55760-03

Initial Calibration HPMS6 8-APR-99

Analyte	Method Blank	RL	Q
Vinyl chloride	0.00039	0.009	
cis-1,2-Dichloroethene	0.000094	0.006	
cis-1,3-Dichloropropene	0.000097	0.005	
m-,p-Xylene	0.0002	0.005	
n-Butylbenzene	0.00012	0.005	
n-Propylbenzene	0.00012	0.002	
o-Xylene	0.0001	0.005	
sec-Butylbenzene	0.00011	0.007	
tert-Butylbenzene	0.00012	0.007	
trans-1,2-Dichloroethene	0.000084	0.003	
trans-1,3-Dichloropropene	0.0001	0.005	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55760-04

Units: mg/kg

Initial Calibration HPMS6 8-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	.02	0.0215	107.5	62 - 108	
1,1,1-Trichloroethane	.02	0.0216	108	65 - 135	
1,1,2,2-Tetrachloroethane	.02	0.0211	105.5	64 - 135	
1,1,2-Trichloroethane	.02	0.0217	108.5	65 - 135	
1,1-Dichloroethane	.02	0.0221	110.5	62 - 135	
1,1-Dichloroethene	.02	0.0221	110.5	65 - 135	
1,1-Dichloropropene	.02	0.0249	124.5	65 - 135	
1,2,3-Trichlorobenzene	.02	0.0201	100.5	65 - 147	
1,2,3-Trichloropropane	.02	0.0212	106	65 - 135	
1,2,4-Trichlorobenzene	.02	0.0199	99.5	65 - 145	
1,2,4-Trimethylbenzene	.02	0.0216	108	65 - 135	
1,2-Dibromo-3-chloropropane	.02	0.0202	101	49 - 135	
1,2-Dibromoethane	.02	0.0215	107.5	65 - 135	
1,2-Dichlorobenzene	.02	0.0208	104	65 - 135	
1,2-Dichloroethane	.02	0.0211	105.5	58 - 137	
1,2-Dichloropropane	.02	0.0223	111.5	60 - 135	
1,3,5-Trimethylbenzene	.02	0.0223	111.5	62 - 135	
1,3-Dichlorobenzene	.02	0.0205	102.5	65 - 135	
1,3-Dichloropropane	.02	0.0218	109	65 - 135	
1,4-Dichlorobenzene	.02	0.0203	101.5	65 - 135	
1-Chlorohexane	.02	0.0105	52.5	65 - 135	*
2,2-Dichloropropane	.02	0.0218	109	65 - 135	
2-Chlorotoluene	.02	0.0215	107.5	63 - 135	
4-Chlorotoluene	.02	0.0218	109	64 - 135	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55760-04

Units: mg/kg

Initial Calibration HPMS6 8-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
Benzene	.02	0.0222	111	65 - 135	
Bromobenzene	.02	0.0205	102.5	65 - 135	
Bromochloromethane	.02	0.0216	108	63 - 135	
Bromodichloromethane	.02	0.0218	109	65 - 135	
Bromoform	.02	0.0202	101	65 - 135	
Bromomethane	.02	0.0271	135.5	62 - 135	*
Carbon tetrachloride	.02	0.0218	109	52 - 135	
Chlorobenzene	.02	0.0209	104.5	65 - 135	
Chloroethane	.02	0.024	120	55 - 135	
Chloroform	.02	0.0218	109	64 - 135	
Chloromethane	.02	0.0239	119.5	65 - 135	
Dibromochloromethane	.02	0.0215	107.5	63 - 135	
Dibromomethane	.02	0.0212	106	59 - 137	
Dichlorodifluoromethane	.02	0.0265	132.5	65 - 135	
Ethylbenzene	.02	0.0227	113.5	65 - 135	
Hexachlorobutadiene	.02	0.0209	104.5	65 - 135	
Isopropylbenzene	.02	0.0205	102.5	65 - 135	
Methylene chloride	.02	0.0228	114	65 - 135	
Naphthalene	.02	0.0197	98.5	65 - 135	
Styrene	.02	0.0223	111.5	65 - 135	
Tetrachloroethene	.02	0.0218	109	61 - 135	
Toluene	.02	0.0225	112.5	64 - 135	
Trichloroethene	.02	0.0214	107	61 - 135	
Trichlorofluoromethane	.02	0.0216	108	57 - 135	

Comments:

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG55760

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55760-04

Units: mg/kg

Initial Calibration HPMS6 8-APR-99

Analyte	Expected	Found	%R	Control Limits	Q
Vinyl chloride	.02	0.0253	126.5	36 - 144	
cis-1,2-Dichloroethene	.02	0.0219	109.5	65 - 135	
cis-1,3-Dichloropropene	.02	0.0231	115.5	64 - 135	
m-,p-Xylene	.04	0.044	110	65 - 135	
n-Butylbenzene	.02	0.0224	112	65 - 135	
n-Propylbenzene	.02	0.0227	113.5	65 - 135	
o-Xylene	.02	0.0222	111	65 - 135	
sec-Butylbenzene	.02	0.0221	110.5	65 - 135	
tert-Butylbenzene	.02	0.0211	105.5	65 - 135	
trans-1,2-Dichloroethene	.02	0.0235	117.5	65 - 135	
trans-1,3-Dichloropropene	.02	0.021	105	56 - 135	

Comments:

MATRIX AFCEE ANALYSES DATA

DUPLICATE SAMPLE RECOVERY

Analytical Method : 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 90

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration HPMS6 8-APR-9

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
1,1,1,2-Tetrachloroethane		.0222	0.0172	77.5	0.0184	82.9	6.9	62 - 108	30	
1,1,1-Trichloroethane		.0222	0.0213	95.9	0.0221	99.5	3.6	65 - 135	30	
1,1,2,2-Tetrachloroethane		.0222	0.0167	75.2	0.0178	80.2	6.5	64 - 135	30	
1,1,2-Trichloroethane		.0222	0.020	90.1	0.0209	94.1	4.3	65 - 135	30	
1,1-Dichloroethane		.0222	0.0219	98.6	0.0232	104.5	5.9	62 - 135	30	
1,1-Dichloroethene		.0222	0.0224	100.9	0.024	108.1	6.7	65 - 135	30	
1,1-Dichloropropene		.0222	0.0224	100.9	0.024	108.1	6.7	65 - 135	30	
1,2,3-Trichlorobenzene		.0222	0.00522	23.5	0.0060	27	13.9	65 - 147	30	*
1,2,3-Trichloropropane		.0222	0.0174	78.4	0.0186	83.8	6.2	65 - 135	30	
1,2,4-Trichlorobenzene		.0222	0.00578	26	0.00633	28.5	9.2	65 - 145	30	
1,2,4-Trimethylbenzene		.0222	0.0124	55.9	0.0138	62.2	10.2	65 - 135	30	*
1,2-Dibromo-3-chloropropane		.0222	0.0136	61.3	0.015	67.6	10.1	49 - 135	30	
1,2-Dibromoethane		.0222	0.018	81.1	0.0193	86.9	7.1	65 - 135	30	
1,2-Dichlorobenzene		.0222	0.0106	47.7	0.0113	50.9	7.1	65 - 135	30	*
1,2-Dichloroethane		.0222	0.0208	93.7	0.0216	97.3	3.7	58 - 137	30	
1,2-Dichloropropane		.0222	0.0211	95	0.0223	100.5	5.6	60 - 135	30	
1,3,5-Trimethylbenzene		.0222	0.0131	59	0.0147	66.2	11.2	62 - 135	30	*
1,3-Dichlorobenzene		.0222	0.0104	46.8	0.0117	52.7	11.1	65 - 135	30	*
1,3-Dichloropropane		.0222	0.0194	87.4	0.0209	94.1	7.2	65 - 135	30	
1,4-Dichlorobenzene		.0222	0.0104	46.8	0.0114	51.4	9.1	65 - 135	30	*
1-Chlorohexane		.0222	0.00667	30	0.00711	32	6.5	65 - 135	30	*
2,2-Dichloropropane		.0222	0.0219	98.6	0.0233	105	6.4	65 - 135	30	
2-Chlorotoluene		.0222	0.0129	58.1	0.0151	68	15.9	63 - 135	30	*
4-Chlorotoluene		.0222	0.0133	59.9	0.0137	61.7	2.5	64 - 135	30	*

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 90

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration HPMS6 8-APR-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Benzene		.0222	0.0277	124.8	0.0228	102.7	19.4	65 - 135	30	
Bromobenzene		.0222	0.0133	59.9	0.0149	67.1	11	65 - 135	30	*
Bromochloromethane		.0222	0.0207	93.2	0.022	99.1	6.3	63 - 135	30	
Bromodichloromethane		.0222	0.020	90.1	0.021	94.6	4.9	65 - 135	30	
Bromoform		.0222	0.015	67.6	0.0161	72.5	7.1	65 - 135	30	
Bromomethane		.0222	0.0297	133.8	0.0298	134.2	.4	62 - 135	30	
Carbon tetrachloride		.0222	0.0203	91.4	0.0212	95.5	4.3	52 - 135	30	
Chlorobenzene	0.00056	.0222	0.0168	73.2	0.0177	77.2	5.2	65 - 135	30	
Chloroethane		.0222	0.0268	120.7	0.0279	125.7	4.1	55 - 135	30	
Chloroform		.0222	0.0213	95.9	0.0226	101.8	5.6	64 - 135	30	
Chloromethane		.0222	0.0269	121.2	0.0277	124.8	2.9	65 - 135	30	
Dibromochloromethane		.0222	0.0179	80.6	0.0189	85.1	5.4	63 - 135	30	
Dibromomethane		.0222	0.0199	89.6	0.021	94.6	5.4	59 - 137	30	
Dichlorodifluoromethane		.0222	0.0296	133.3	0.0321	144.6	8.3	65 - 135	30	*
Ethylbenzene		.0222	0.0166	74.8	0.018	81.1	8.4	65 - 135	30	
Hexachlorobutadiene		.0222	0.00889	40	0.010	45	11.8	65 - 135	30	*
Isopropylbenzene		.0222	0.0133	59.9	0.0148	66.7	10.3	65 - 135	30	*
Methylene chloride	0.0022	.0222	0.024	98.2	0.0252	103.6	5	65 - 135	30	
Naphthalene		.0222	0.00678	30.5	0.00789	35.5	15.2	65 - 135	30	*
Styrene		.0222	0.0152	68.5	0.0164	73.9	7.7	65 - 135	30	
Tetrachloroethene		.0222	0.0164	73.9	0.0173	77.9	5.3	61 - 135	30	
Toluene	0.00093	.0222	0.0259	112.5	0.0218	94	17.2	64 - 135	30	
Trichloroethene		.0222	0.0192	86.5	0.0206	92.8	6.7	61 - 135	30	
Trichlorofluoromethane		.0222	0.0221	99.5	0.0232	104.5	4.9	57 - 135	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8260B AAB # : WG55760

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU0108AA Units: mg/kg % Solids: 90

MS ID: S13SFU0108AA MS MSD ID: S13SFU0108AA MSD Initial Calibration HPMS6 8-APR-99

* Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Vinyl chloride	.0222	0.029	130.6	0.0297	133.8	2.3	36 - 144	30		
cis-1,2-Dichloroethene	.0222	0.0214	96.4	0.0228	102.7	6	65 - 135	30		
cis-1,3-Dichloropropene	.0222	0.0207	93.2	0.0218	98.2	5.2	64 - 135	30		
m-,p-Xylene	.0444	0.032	72.1	0.0346	77.9	7.7	65 - 135	30		
n-Butylbenzene	.0222	0.0114	51.4	0.0131	59	13.6	65 - 135	30		*
n-Propylbenzene	.0222	0.0141	63.5	0.0157	70.7	10.4	65 - 135	30		*
o-Xylene	.0222	0.0157	70.7	0.0171	77	8.6	65 - 135	30		
sec-Butylbenzene	.0222	0.0127	57.2	0.0146	65.8	13.9	65 - 135	30		*
tert-Butylbenzene	.0222	0.0127	57.2	0.0144	64.9	13.1	65 - 135	30		*
trans-1,2-Dichloroethene	.0222	0.0236	106.3	0.025	112.6	5.9	65 - 135	30		
trans-1,3-Dichloropropene	.0222	0.0184	82.9	0.0194	87.4	5.3	56 - 135	30		

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8260B

AAB#: WG55760

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SFU0108AA	1-Apr-99	2-Apr-99	N/A	14	N/A	9-Apr-99	14	8	
S13SFU0108AA/MS	1-Apr-99	2-Apr-99	N/A	14	N/A	9-Apr-99	14	8	
S13SFU0108AA/MSD	1-Apr-99	2-Apr-99	N/A	14	N/A	9-Apr-99	14	8	
S13SFU0208AA	1-Apr-99	2-Apr-99	N/A	14	N/A	9-Apr-99	14	8	
S13SFU0208AA/DUP	1-Apr-99	2-Apr-99	N/A	14	N/A	9-Apr-99	14	8	

Comments:

Forms by ChemSW (707)864-0845,v1.0;12/1/97

507 695

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG55698
Analysis Date 4-8-99

Analyst CMS
Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem: NA

Action Taken: Copied 3/4 – 3/12 1999 onto K-drive.

Returned to Control? Yes ____ No ____

Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #
6M13011	NA	1	WG55698-01 BFB 50 PPM STD	5ml	NA	✓	1	NA	S-44-7	NA
6M13012		2	-02 50 PPB STD MB260	5g/5ml		✓			VSTD0408*	S-44-9 S-44-10
6M13013		3	-03 20			✓				
6M13014		4	-04 10			✓				
6M13015		5	-05 5			✓				
6M13016		6	-06 2			✓				
6M13017		7	-07 100			✓				
6M13018		8	SYSTEM BLANK			✓				
6M13019		9	WG55698-08 20PPB ALT SBC STD			✓			NA	
6M13020		10				not needed			QC0~~40~~ 0323 4-9-99	
		11							QC0408*	

*VSTD0408 = 4-6-99 CCS

Calibration STD's S-44-24/S-44-27/S-44-28/S-44-29/S-44-30/S-44-36 *QC0408: Alternate Source/QC STD's S-44-3/S-44-37/S-44-38/S-44-39

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = M[illegible] Tune, beyound method tuning requirements
CC = C[illegible]ing calibration failed
C/O = Suspected carryover from prev[illegible]

Reviewed By: ____

SOP Reference[illegible]
1 MSV01 Revisi[illegible] - (8260B)
2 MSV10

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 696

Workgroup #(s) WG55760
Analysis Date 4-9-99

Analyst CMS
Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: 4/12/99 CMS

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (If applicable)	SOLN #	IS/SS SOLN #	Ana Ti
6M13021	NA	1	WG55760-01 BFB 50PPM STD	5ml	NA	✓	1	NA	S-44-7	NA	08
6M13022		2	-02 50PPB STD MB260	5g/5ml		✓			VSTD040B	S-44-9 S-44-10	
6M13023		3	-03 VBLK0409 SOIL BLANK			✓			NA		
6M13024		4	-04 20PPB VOA QC SPIKE			✓			QC040B		
6M13025		5	-08 100PPB FOOL-5 STD			✓			F00.02.11		
6M13026		6	L9904068-01 UCC B260/B24 FOOL5			✓			NA		
6M13027		7	L9904068-05 FPM B26-AF9B			✓			〃		
6M13028		8	-06MS			✓			QC040B		
6M13029		9	-07MSD			✓			NA		
6M13030		10	-08			✓			〃		
6M13031		11	-09			✓			〃		

Calibration STD's VSTD040B, F00.0211
Comments:

Alternate Source/QC STD's QC040B

Reviewed By:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)

507 697

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG55760
Analysis Date 4-9-99

Analyst CMS
Instrument HPMS6

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	An Ti
6M13032	NA	12	L9904101-03 WESTON 826AF98-PAN	5g/5ml	NA	✓	1	NA	NA	5-99-9	
6M13033	"	13	" -07	"	"	✓	"	"	"	5-99-10	
6M13034	"	14	L9904153-05	"	"	✓	"	"	"	"	
6M13035	"	15	" -08	"	"	✓	"	"	"	"	
6M13036	"	16	L9904155-06	"	"	✓	"	"	"	"	
6M13037	"	17	" -07	"	"	✓	"	"	"	"	
6M13038	"	18	L9904138-01 ECC 826-TCL	"	"	✓	"	"	"	"	
6M13039	"	19	L9904076-01 IERA MB260	1g/5ml	5	RR@100X{5X	"	GM13053	"	"	
6M13040	"	20	" -03	"	"	RR ext	"	2M30011	"	"	
6M13041	"	21	" -02	"	"	RR ext	"	2M30013	"	"	
6M13042	"	22	SYSTEM BLANK	"	"	RR ext.	"	2M30012	"	"	
6M13043	—	—	BAKEOUT	5g/5ml	NA	✓	"	NA	"	"	195

4/9/99 CMS

Calibration STD's VSTD0408, F00.0211
Comments:
1

Alternate Source/QC STD's QC0408

Reviewed By: _____

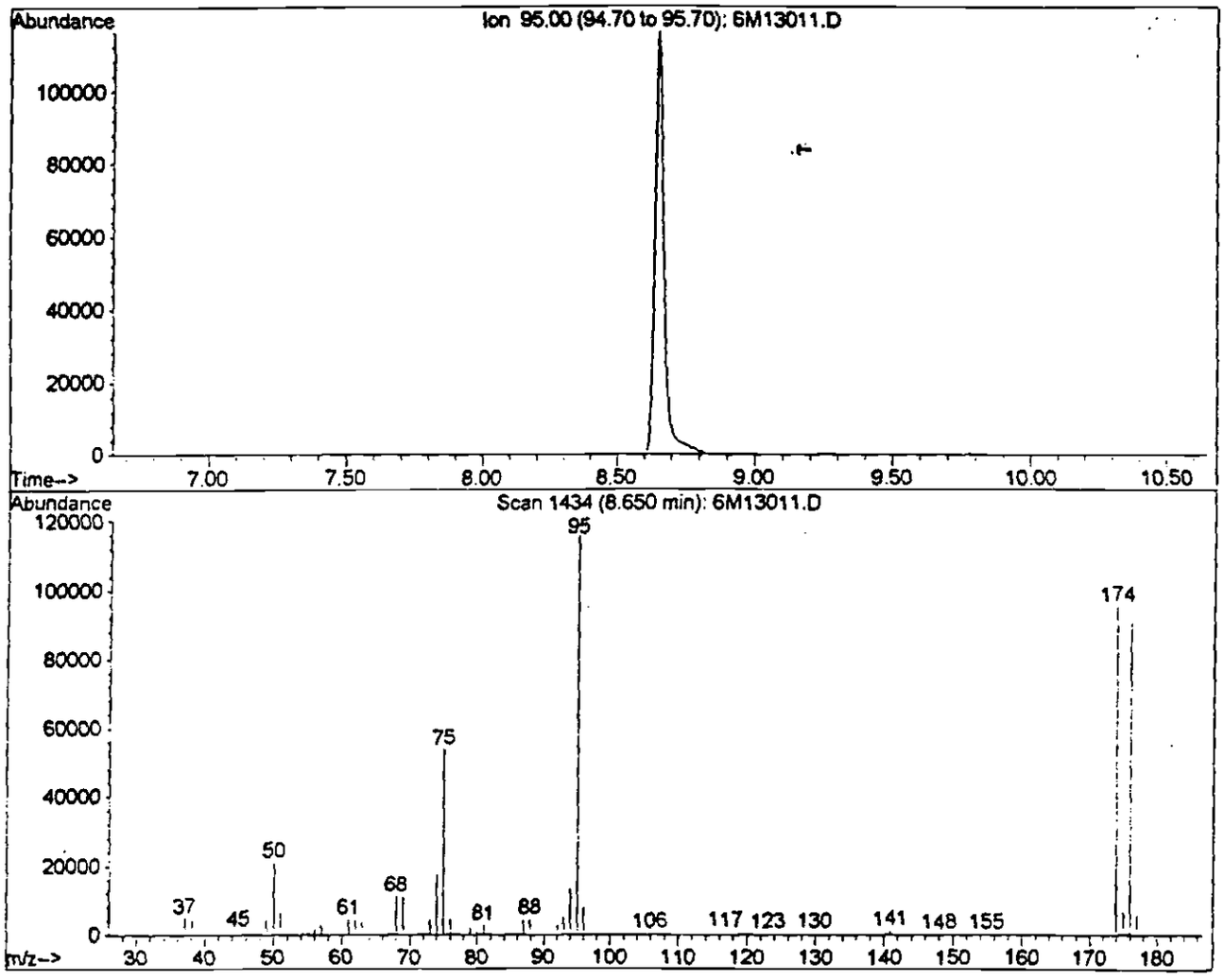
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspect [illegible] over from previous sample

SOP References
1 MSV01 Revision 0 - [illegible]
2 MSV10 Revision 0 - [illegible]
3 MSV08ACLP Revision 0 (CLP 3/99)

507 698

Data File : C:\HPCHEM\1\DATA\040899\6M13011.D Vial: 1
Acq On : 8 Apr 1999 8:35 Operator: CMS
Sample : WG55698-01 BFB 50 PPM STD S-44-7 10UL/50 Inst : HPMS
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 02/23/99

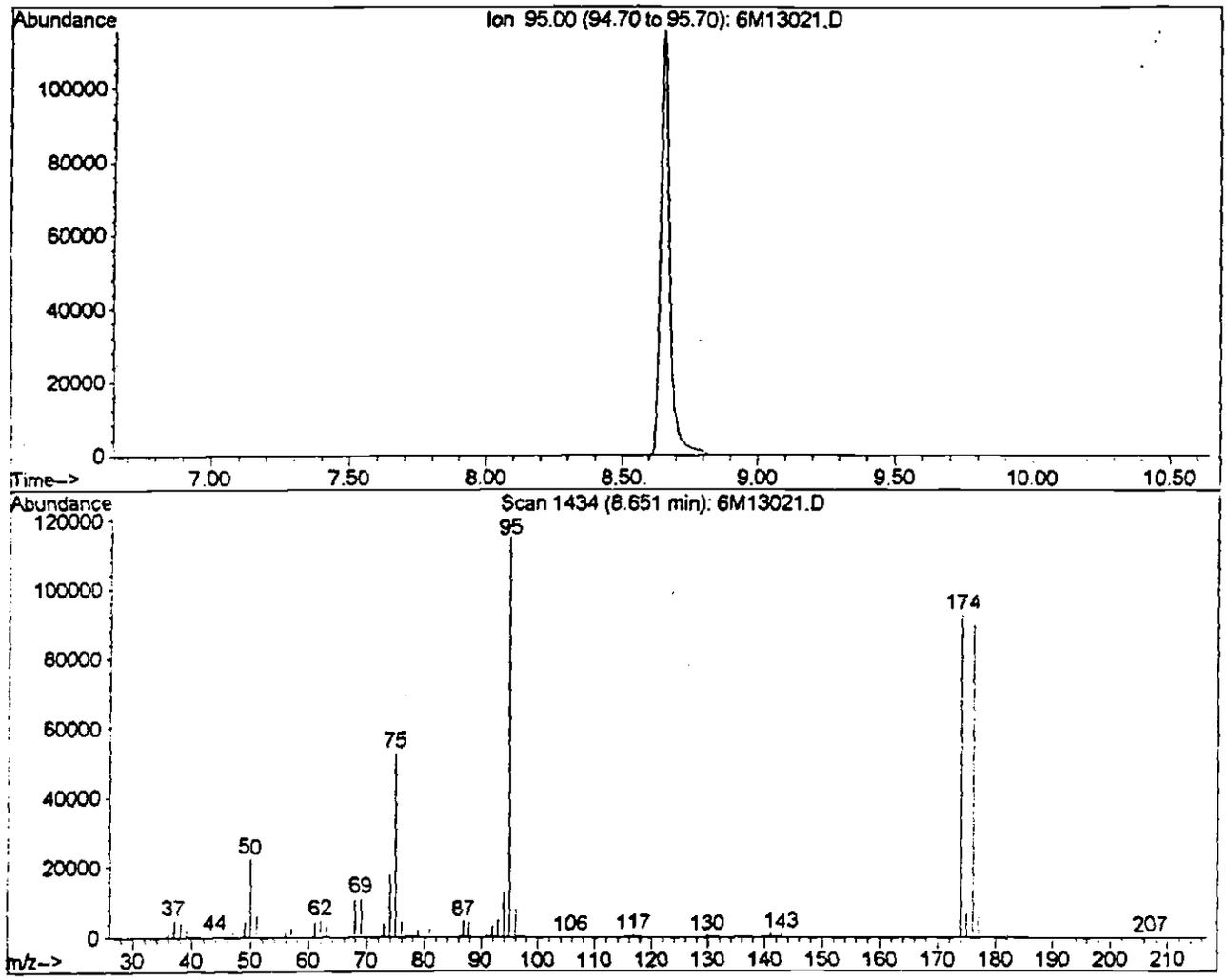


Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	21104	PASS
75	95	30	60	46.4	53856	PASS
95	95	100	100	100.0	116024	PASS
96	95	5	9	6.8	7891	PASS
173	174	0.00	2	0.7	638	PASS
174	95	50	100	82.4	95640	PASS
175	174	5	9	7.3	6950	PASS
176	174	95	101	95.1	90992	PASS
177	176	5	9	6.4	5797	PASS

507 699

Data File : C:\HPCHEM\1\DATA\040999\6M13021.D Vial: 1
Acq On : 9 Apr 1999 8:20 Operator: CMS
Sample : WG55760-01 BFB 50 PPM STD S-44-7 10UL/50 Inst : HPMS_
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AF98SL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 04/08/99



Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	22408	PASS
75	95	30	60	45.9	53064	PASS
95	95	100	100	100.0	115544	PASS
96	95	5	9	6.9	8012	PASS
173	174	0.00	2	0.8	706	PASS
174	95	50	100	80.4	92864	PASS
175	174	5	9	7.3	6779	PASS
176	174	95	101	97.5	90496	PASS
177	176	5	9	6.5	5878	PASS

AFCEE

ORGANIC ANALYSES DATA PACKAGE

507 700

Analytical Method : **8260B**

AAB # : **WG55580**

Lab Name : **Kemron Environmental Services**

Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB**

Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SUN0500AE	L9904068-01
TRIP BLANK #1	L9904068-02
S13SFU0100AF	L9904068-04

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **27-APR-99**

Title: **Laboratory Manager**

507 701

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	R
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	R
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	R
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	0.300	1	F
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	R
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	0.240	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	R
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

507 704

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SUN0500AE Lab Sample ID: L9904068-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
sec-Butylbenzene	.25	1.3	.25	1	R
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	108	62 - 139	
4-Bromofluorobenzene	120	75 - 125	
Dibromofluoromethane	96.4	75 - 125	
Toluene-d8	94.4	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	R
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	R
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	R
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	.17	1	U
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

507 707

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	R
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	R
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: TRIP BLANK #1 Lab Sample ID: L9904068-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
sec-Butylbenzene	.25	1.3	.25	1	R
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	114	62 - 139	
4-Bromofluorobenzene	123	75 - 125	
Dibromofluoromethane	99.5	75 - 125	
Toluene-d8	94.5	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	.21	0.50	.21	1	U
1,1,1-Trichloroethane	.23	0.80	.23	1	R
1,1,2,2-Tetrachloroethane	.14	0.50	.14	1	U
1,1,2-Trichloroethane	.24	1.0	.24	1	U
1,1-Dichloroethane	.23	0.50	.23	1	U
1,1-Dichloroethene	.21	1.2	.21	1	U
1,1-Dichloropropene	.2	1.0	.2	1	U
1,2,3-Trichlorobenzene	.14	1.0	.14	1	R
1,2,3-Trichloropropane	.34	3.2	.34	1	U
1,2,4-Trichlorobenzene	.16	2.0	.16	1	U
1,2,4-Trimethylbenzene	.23	1.3	.23	1	U
1,2-Dibromo-3-chloropropane	.79	2.6	.79	1	U
1,2-Dibromoethane	.23	0.60	.23	1	U
1,2-Dichlorobenzene	.12	1.0	.12	1	U
1,2-Dichloroethane	.22	0.60	.22	1	U
1,2-Dichloropropane	.2	0.50	.2	1	U
1,3,5-Trimethylbenzene	.22	0.50	.22	1	U
1,3-Dichlorobenzene	.19	1.2	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFV0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	.19	0.50	.19	1	U
1,4-Dichlorobenzene	.14	1.0	.14	1	U
1-Chlorohexane	.26	1.0	.26	1	U
2,2-Dichloropropane	.19	3.5	.19	1	R
2-Chlorotoluene	.17	1.0	.17	1	U
4-Chlorotoluene	.29	0.60	.29	1	U
Benzene	.17	0.50	.17	1	U
Bromobenzene	.17	1.0	.17	1	U
Bromochloromethane	.18	0.50	.18	1	U
Bromodichloromethane	.19	1.0	.19	1	U
Bromoform	.33	1.2	.33	1	R
Bromomethane	.37	1.2	.37	1	U
Carbon tetrachloride	.23	2.1	.23	1	R
Chlorobenzene	.19	0.50	.19	1	U
Chloroethane	.26	1.0	.26	1	U
Chloroform	.17	0.50	0.310	1	F
Chloromethane	.26	1.3	.26	1	U
Dibromochloromethane	.26	0.50	.26	1	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: _____ Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Dibromomethane	.21	2.4	.21	1	U
Dichlorodifluoromethane	.18	1.0	.18	1	R
Ethylbenzene	.25	1.0	.25	1	U
Hexachlorobutadiene	.25	1.1	.25	1	R
Isopropylbenzene	.16	0.50	.16	1	U
Methylene chloride	.1	1.0	.1	1	U
Naphthalene	.13	1.0	.13	1	R
Styrene	.2	1.0	.2	1	U
Tetrachloroethene	.25	1.4	.25	1	U
Toluene	.2	1.1	.2	1	U
Trichloroethene	.17	1.0	.17	1	U
Trichlorofluoromethane	.26	1.0	.26	1	U
Vinyl chloride	.35	1.1	.35	1	U
cis-1,2-Dichloroethene	.15	1.2	.15	1	U
cis-1,3-Dichloropropene	.18	1.0	.18	1	U
m-,p-Xylene	.29	1.0	.29	1	U
n-Butylbenzene	.2	1.1	.2	1	R
n-Propylbenzene	.19	1.0	.19	1	U

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 2

RESULTS

507 712

Analytical Method : 8260B Preparatory Method: 5030B AAB # : WG55580

Lab Name : Kemron Environmental Services Contract#: F41624-95-D-8003-0023

Field Sample ID: S13SFU0100AF Lab Sample ID: L9904068-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS9 19-FEB-99

Date Received: 02-APR-99 Date Extracted: Date Analyzed: 06-APR-99

Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
o-Xylene	.21	1.1	.21	1	U
sec-Butylbenzene	.25	1.3	.25	1	R
tert-Butylbenzene	.21	1.4	.21	1	U
trans-1,2-Dichloroethene	.21	0.60	.21	1	U
trans-1,3-Dichloropropene	.21	1.0	.21	1	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	116	62 - 139	
4-Bromofluorobenzene	125	75 - 125	
Dibromofluoromethane	98.9	75 - 125	
Toluene-d8	94.8	75 - 125	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

Calibration Table Report
Method: AFCEENT.M
Title: Method 8260B Water Analysis 02/19/99
Last Calibration: Mon Feb 22 08:25:50 1999

HPMS_9

507 713

Calibration Files

Compound	0.5	1	2	5	10	100	20	50	Avg	%RSD	MEAN % RSD
	[illegible]D	[illegible]D	[illegible]D	[illegible]D	[illegible]D	[illegible]D	[illegible]D	[illegible]D			
Fluorobenzene	ISTD										
Dichlorodifluoromethane	0.327	0.362	0.354	0.323	0.331	0.323	0.327	0.332	0.335	4.457	9.144
Chloromethane	0.349	0.364	0.338	0.289	0.272	0.262	0.279	0.274	0.306	12.574	
Vinyl Chloride	0.259	0.298	0.278	0.226	0.256	0.278	0.297	0.279	0.228	20.141	
Bromomethane	0.200	0.189	0.188	0.147	0.142	0.152	0.144	0.142	0.164	14.689	
Chloroethane	0.160	0.181	0.176	0.155	0.154	0.164	0.155	0.158	0.163	6.316	
Trichlorofluoromethane	0.518	0.561	0.571	0.511	0.506	0.506	0.501	0.495	0.521	5.520	
Isoprene	0.269	0.325	0.303	0.327	0.323	0.324	0.337	0.331	0.317	6.956	
Acrolein			0.008	0.011	0.012	0.009	0.014	0.015	0.012	22.514	
1,1,2-Trichlorotrifluoromethane	0.259	0.279	0.280	0.253	0.255	0.249	0.255	0.254	0.261	4.575	
Acetone			0.080	0.062	0.058	0.046	0.052	0.047	0.057	21.481	
1,1-Dichloroethene	0.186	0.239	0.236	0.230	0.221	0.222	0.230	0.220	0.223	7.366	
Dimethyl Sulfide	0.213	0.254	0.267	0.264	0.253	0.267	0.270	0.264	0.257	7.206	
Iodomethane		0.191	0.222	0.226	0.232	0.234	0.268	0.260	0.233	10.956	
Methylene Chloride	0.372	0.344	0.320	0.272	0.267	0.265	0.263	0.254	0.294	15.414	
Carbon Disulfide		0.733	0.706	0.726	0.693	0.717	0.731	0.726	0.720	2.064	
Acrylonitrile		0.048	0.054	0.052	0.058	0.058	0.059	0.058	0.055	7.659	
Methyl Tert Butyl Ether	0.489	0.571	0.574	0.592	0.567	0.577	0.593	0.569	0.560	5.758	
trans-1,2-Dichloroethene	0.219	0.270	0.267	0.250	0.241	0.241	0.250	0.238	0.247	6.697	
n-Hexane	0.267	0.321	0.298	0.322	0.316	0.314	0.326	0.316	0.311	6.466	
Vinyl Acetate			0.230	0.282	0.292	0.227	0.306	0.306	0.274	13.085	
1,1-Dichloroethane	0.415	0.512	0.507	0.474	0.457	0.454	0.474	0.444	0.467	6.896	
2-Butanone			0.066	0.067	0.068	0.069	0.067	0.066	0.067	1.757	
2,2-Dichloropropane	0.367	0.452	0.461	0.450	0.447	0.436	0.463	0.454	0.462	7.008	
cis-1,2-Dichloroethene	0.236	0.300	0.309	0.266	0.276	0.279	0.287	0.273	0.281	7.689	
Chloroform	0.463	0.569	0.570	0.516	0.492	0.499	0.510	0.482	0.512	7.642	
Bromochloromethane	0.113	0.133	0.137	0.126	0.122	0.124	0.128	0.120	0.125	6.103	
Dibromofluoromethane			0.147	0.137	0.138	0.142	0.143	0.141	0.141	2.711	
1,1,1-Trichloroethane	0.415	0.529	0.502	0.478	0.461	0.478	0.478	0.455	0.474	7.065	
Cyclohexane	0.336	0.398	0.382	0.404	0.383	0.388	0.408	0.402	0.390	6.021	
1,1-Dichloropropene	0.285	0.363	0.365	0.355	0.348	0.355	0.356	0.344	0.346	7.487	
Carbon Tetrachloride	0.339	0.436	0.415	0.409	0.402	0.408	0.418	0.404	0.407	7.804	
1,2-Dichloroethane-d4			0.160	0.162	0.164	0.164	0.167	0.162	0.167	4.136	
1,2-Dichloroethane	0.358	0.441	0.434	0.400	0.382	0.388	0.393	0.366	0.395	7.099	
Benzene	0.886	1.123	1.153	1.063	1.028	0.998	1.063	1.001	1.039	7.881	
Trichloroethene	0.253	0.314	0.320	0.295	0.288	0.308	0.300	0.287	0.295	7.144	
1,2-Dichloropropane	0.214	0.255	0.267	0.245	0.236	0.246	0.249	0.237	0.243	6.342	
Dichlorobromomethane	0.314	0.377	0.381	0.363	0.361	0.368	0.377	0.361	0.366	6.674	
Dibromomethane	0.115	0.144	0.142	0.134	0.131	0.134	0.134	0.126	0.133	5.991	
2-Chloroethyl Vinyl Ether		0.079	0.099	0.106	0.109	0.103	0.114	0.114	0.106	13.551	
4-Methyl-2-Pentanone			0.055	0.056	0.057	0.064	0.060	0.060	0.059	5.211	
cis-1,3-Dichloropropene	0.314	0.392	0.416	0.403	0.398	0.42	0.416	0.401	0.3952	6.6775	
Dimethyl Disulfide		0.13	0.15	0.177	0.187	0.236	0.212	0.216	0.187	20.272	
Chlorobenzene-d5	ISTD										
Toluene-d8			0.716	0.662	0.663	0.627	0.697	0.676	0.6739	4.5691	
Toluene	1.362	1.663	1.681	1.506	1.475	1.34	1.501	1.407	1.4943	8.2964	
Ethyl Methacrylate		0.252	0.268	0.303	0.299	0.317	0.321	0.315	0.2956	9.0469	
trans-1,3-Dichloropropene	0.367	0.448	0.468	0.475	0.471	0.483	0.492	0.473	0.4624	8.794	
1,1,2-Trichloroethane	0.195	0.242	0.246	0.227	0.227	0.228	0.231	0.222	0.2275	8.9648	
2-Hexanone			0.115	0.122	0.123	0.13	0.126	0.127	0.1238	4.24	
1,3-Dichloropropane	0.372	0.441	0.454	0.432	0.42	0.428	0.43	0.41	0.4232	5.7867	
Tetrachloroethene	0.271	0.329	0.32	0.299	0.295	0.302	0.305	0.297	0.3014	5.7777	
Dibromochloromethane	0.231	0.274	0.296	0.286	0.295	0.301	0.311	0.307	0.2915	10.261	
1,2-Dibromoethane	0.18	0.234	0.245	0.233	0.232	0.24	0.242	0.233	0.2299	8.9764	
1-Chlorohexane	0.332	0.437	0.442	0.461	0.464	0.472	0.486	0.483	0.4597	11.33	
Chlorobenzene	0.946	1.131	1.148	1.051	1.011	0.998	1.051	0.995	1.0415	6.6773	
1,1,1,2-Tetrachloroethane	0.301	0.367	0.394	0.361	0.359	0.36	0.377	0.365	0.3631	7.5958	
Ethylbenzene	0.504	0.645	0.626	0.592	0.572	0.589	0.594	0.575	0.5871	7.1229	
m-,p-Xylene	0.654	0.837	0.804	0.773	0.739	0.764	0.767	0.732	0.7487	8.0449	
o-Xylene	0.561	0.767	0.764	0.742	0.71	0.735	0.755	0.733	0.7246	8.3197	
Styrene	0.681	1.228	1.297	1.274	1.243	1.259	1.301	1.251	1.2105	11.337	
Bromoform	0.104	0.148	0.162	0.157	0.165	0.173	0.18	0.183	0.1676	18.969	
Isopropylbenzene	1.492	2.057	2.013	2.012	1.937	1.91	1.997	1.867	1.8857	10.267	
1,4-Dichlorobenzene-d4	ISTD										
1,1,2,2-Tetrachloroethane	0.346	0.423	0.486	0.426	0.434	0.427	0.444	0.424	0.4287	8.9014	
p-Bromofluorobenzene			0.545	0.494	0.492	0.479	0.506	0.49	0.5013	4.0399	
1,2,3-Trichloropropane	0.137	0.175	0.18	0.159	0.16	0.161	0.16	0.15	0.1602	8.3413	
trans-1,4-Dichloro-2-Butene	0.083	0.118	0.124	0.132	0.13	0.144	0.142	0.14	0.1271	15.984	
n-Propylbenzene	2.64	3.894	3.992	3.618	3.664	3.922	3.732	3.387	3.5309	12.446	
Bromobenzene	0.68	0.831	0.861	0.764	0.749	0.744	0.771	0.717	0.7671	7.6282	
1,3,5-Trimethylbenzene	2.11	2.95	3.063	2.868	2.81	2.687	2.892	2.722	2.7402	11.196	
2-Chlorotoluene	2.159	2.629	2.627	2.464	2.337	2.23	2.435	2.206	2.3651	6.5631	
4-Chlorotoluene	2.071	2.657	2.758	2.491	2.425	2.32	2.435	2.252	2.4022	10.042	
a-Methylstyrene	0.9	1.192	1.352	1.426	1.356	1.451	1.465	1.469	1.3315	14.791	
tert-Butylbenzene	2.16	2.529	2.567	2.444	2.329	2.264	2.296	2.235	2.353	6.7732	

p-Isopropyltoluene	2.415	3.227	3.403	3.202	3.171	2.715	3.221	3.036	3.0487	10.655
1,3-Dichlorobenzene	1.399	1.714	1.788	1.58	1.539	1.514	1.588	1.52	1.5803	7.713
1,4-Dichlorobenzene	1.489	1.766	1.851	1.637	1.585	1.533	1.625	1.552	1.6298	7.5018
n-Butylbenzene	2.151	2.825	2.911	2.721	2.719	2.387	2.777	2.62	2.6389	9.5319
1,2-Dichlorobenzene	1.268	1.52	1.629	1.428	1.394	1.375	1.437	1.371	1.4266	7.61
1,2-Dibromo-3-Chloropropene	0.046	0.082	0.094	0.084	0.089	0.101	0.096	0.097	0.0862	20.266
1,2,4-Trichlorobenzene	0.945	1.156	1.276	1.064	1.086	1.09	1.122	1.069	1.101	8.5017
Hexachlorobutadiene	0.485	0.572	0.576	0.509	0.508	0.513	0.518	0.507	0.5234	6.2071
Naphthalene	1.199	1.53	1.935	1.324	1.649	1.688	1.714	1.52	1.5699	14.77
1,2,3-Trichlorobenzene	0.814	1.001	1.13	0.919	0.932	0.922	0.961	0.904	0.9479	9.5684

Mon Feb 22 08:20:13 1999

507 715

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8260B

AAB#: WG55580

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003

Instrument ID: HPMS_9

Initial Calibration ID: HPMS_9 19-Feb-99

2nd Source ID: ALT HPMS9 19-Feb-99

Analyte	% D	Q
Chloromethane *	-1.73	
1,1-DCA *	5.38	
Bromoform *	7.24	
Chlorobenzene *	5.14	
1,1,2,2-TCA *	-8.01	
1,1-DCE #	0.44	
Chloroform #	8.67	
1,2-DCP #	4.46	
Toluene #	4.80	
Ethylbenzene #	5.47	
Vinyl chloride #	-13.44	
1,1,1,2-Tetrachloroethane	8.29	
1,1,1-TCA	8.10	
1,1,2-TCA	1.46	
1,1-Dichloropropene	17.86	
1,2,3-Trichlorobenzene	5.46	
1,2,3-Trichloropropane	3.46	
1,2,4-Trichlorobenzene	6.00	
1,2,4-Trimethylbenzene	9.54	
1,2-DCA	6.38	
1,2-DCB	4.87	
1,2-Dibromo-3-chloropropane	9.14	
1,2-EDB	4.32	
1,3,5-Trimethylbenzene	9.53	
1,3-DCB	4.48	
1,3-Dichloropropane	1.51	
1,4-DCB	2.34	
1-Chlorohexane	8.29	
2,2-Dichloropropane	-0.12	
2-Chlorotoluene	3.20	
4-Chlorotoluene	8.48	
Benzene	5.60	
Bromobenzene	3.57	
Bromochloromethane	4.05	
Bromodichloromethane	11.35	
Bromomethane	-3.12	
Carbon Tetrachloride	10.34	
Chloroethane	4.73	
Cis-1,2-DCE	4.49	
Cis-1,3-Dichloropropene	11.11	
Dibromochloromethane	9.38	
Dibromomethane	4.83	
Dichlorodifluoromethane	-9.08	
Hexachlorobutadiene	6.10	
Isopropylbenzene	6.43	
m+p-Xylene	4.44	
Methylene chloride	-3.29	
n-Butylbenzene	9.67	
n-Propylbenzene	8.79	
Naphthalene	13.38	
o-Xylene	6.09	
Sec-Butylbenzene	4.92	
Styrene	10.68	
TCE	14.51	
Tert-butylbenzene	11.09	
Tetrachloroethene	2.75	
Trans-1,2-DCE	9.88	
Trans-1,3-Dichloropropene	3.95	
Trichlorofluoromethane	-3.53	

Comments:

5

Data File : C:\HPCHEM\1\DATA\040699\9M02272.D Vial: 2
Acq On : 6 Apr 1999 8:49 Operator: SLT
Sample : 50UG/L STD 8260B Inst : HPMS_9
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AFCEEWT.M (RTE Integrator)
Title : Method 8260B Water Analysis 02/19/99
Last Update : Sun Mar 21 11:44:31 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1	I	Fluorobenzene	25.000	25.000	0.0	129	0.00	
2	T	Dichlorodifluoromethane	50.000	47.061	5.9	123	0.05	
3	P	Chloromethane	50.000	45.223	9.6	130	0.05	
4	C	Vinyl Chloride	50.000	46.692	6.6	154	0.04	
5	T	Bromomethane	50.000	44.646	10.7	133	0.03	
6	T	Chloroethane	50.000	55.113	-10.2	147	0.05	
7	T	Trichlorofluoromethane	50.000	56.327	-12.7	153	0.04	
8	T	Isoprene	50.000	55.516	-11.0	138	0.02	
9	T	Acrolein	100.000	2.088	~~97.9#~~	~~2~~	~~0.04~~	NT
10	t	1,1,2-Trichloro-1,2,2-Trifl	50.000	49.209	1.6	131	0.03	
11	T	Acetone	50.000	36.145	27.7#	115	0.02	NT
12	C	1,1-Dichloroethene	50.000	51.020	-2.0	134	0.03	
13	T	Dimethyl Sulfide	50.000	49.239	1.5	124	0.03	
14	T	Iodomethane	50.000	34.047	31.9#	79	0.02	NT
15	T	Methylene Chloride	50.000	40.724	18.6	122	0.02	
16	T	Carbon Disulfide	50.000	52.323	-4.6	134	0.02	
17	T	Acrylonitrile	50.000	40.356	19.3	100	0.01	
18	T	Methyl Tert Butyl Ether	50.000	55.148	-10.3	142	0.01	
19	T	trans-1,2-Dichloroethene	50.000	51.093	-2.2	137	0.00	
20	T	n-Hexane	50.000	52.925	-5.8	131	0.02	
21	T	Vinyl Acetate	50.000	36.449	27.1#	84	0.01	NT
22	P	1,1-Dichloroethane	50.000	52.196	-4.4	142	0.00	
23	T	2-Butanone	50.000	36.330	27.3#	95	0.00	NT
24	T	2,2-Dichloropropane	50.000	62.374	-24.7	157	0.00	(R)
25	T	cis-1,2-Dichloroethene	50.000	51.920	-3.8	138	0.00	
26	C	Chloroform	50.000	55.464	-10.9	153	0.00	
27	T	Bromochloromethane	50.000	46.892	6.2	127	0.00	
28	S	Dibromofluoromethane	100.000	46.159	~~53.8#~~	~~59~~	~~0.00~~	
29	T	1,1,1-Trichloroethane	50.000	62.072	-24.1	167	0.00	(R)
30	T	Cyclohexane	50.000	50.961	-1.9	128	0.00	
31	T	1,1-Dichloropropene	50.000	55.939	-11.9	146	0.00	
32	T	Carbon Tetrachloride	50.000	63.990	-28.0#	167	0.00	(R)
33	S	1,2-Dichloroethane-d4	100.000	48.546	~~51.5#~~	~~65~~	~~0.00~~	
34	T	1,2-Dichloroethane	50.000	55.271	-10.5	154	0.00	
35	T	Benzene	50.000	50.529	-1.1	136	0.00	
36	T	Trichloroethene	50.000	51.502	-3.0	137	0.00	
37	C	1,2-Dichloropropane	50.000	49.310	1.4	131	0.00	
38	T	Bromodichloromethane	50.000	59.134	-18.3	156	0.00	
39	T	Dibromomethane	50.000	52.012	-4.0	142	0.00	
40	T	2-Chloroethyl Vinyl Ether	50.000	46.490	7.0	112	-0.01	
41	T	4-Methyl-2-Pentanone	50.000	41.743	16.5	106	0.00	

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040699\9M02272.D Vial: 2
Acq On : 6 Apr 1999 8:49 Operator: SLT
Sample : 50UG/L STD 8260B Inst : HPMS_9
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AFCEEWT.M (RTE Integrator)
Title : Method 8260B Water Analysis 02/19/99
Last Update : Sun Mar 21 11:44:31 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T *	cis-1,3-Dichloropropene	50.000	54.437	-8.9	139	-0.01
43	T	Dimethyl Disulfide	50.000	68.707	-37.4#	153	-0.01 NT
44	I	Chlorobenzene-d5	25.000	25.000	0.0	127	-0.01
45	S	Toluene-d8	100.000	46.000	54.0#	58	0.00
46	C	Toluene	50.000	50.946	-1.9	138	0.00
47	T	Ethyl Methacrylate	50.000	54.782	-9.6	132	-0.01
48	T	trans-1,3-Dichloropropene	50.000	57.955	-15.9	144	-0.01
49	T	1,1,2-Trichloroethane	50.000	51.753	-3.5	135	0.00
50	T	2-Hexanone	50.000	43.114	13.8	107	-0.02
51	T	1,3-Dichloropropane	50.000	51.948	-3.9	136	0.00
52	T	Tetrachloroethene	50.000	55.578	-11.2	144	-0.01
53	T	Dibromochloromethane	50.000	59.236	-18.5	144	-0.01
54	T	1,2-Dibromoethane	50.000	50.643	-1.3	127	-0.01
55	T	1-Chlorohexane	50.000	59.434	-18.9	141	0.00
56	P	Chlorobenzene	50.000	52.135	-4.3	139	-0.01
57	T	1,1,1,2-Tetrachloroethane	50.000	59.368	-18.7	150	0.00
58	C	Ethylbenzene	50.000	51.743	-3.5	135	-0.01
59	T	m-,p-Xylene	100.000	99.002	1.0	129	0.00
60	T	o-Xylene	50.000	50.474	-0.9	127	-0.01
61	T	Styrene	50.000	51.313	-2.6	127	-0.02
62	P	Bromoform	50.000	64.363	-28.7#	146	-0.01 R
63	T	Isopropylbenzene	50.000	51.432	-2.9	132	-0.01
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	124	-0.01
65	P	1,1,2,2-Tetrachloroethane	50.000	45.534	8.9	114	-0.01
66	S	p-Bromofluorobenzene	100.000	45.949	54.1#	58	0.01
67	T	1,2,3-Trichloropropane	50.000	49.052	1.9	130	-0.01
68	T	trans-1,4-Dichloro-2-Butene	50.000	59.097	-18.2	134	-0.01
69	T	n-Propylbenzene	50.000	49.226	1.5	128	-0.01
70	T	Bromobenzene	50.000	51.091	-2.2	136	-0.01
71	T	1,3,5-Trimethylbenzene	50.000	49.366	1.3	124	-0.01
72	T	2-Chlorotoluene	50.000	50.959	-1.9	136	-0.01
73	T	4-Chlorotoluene	50.000	51.375	-2.8	136	0.00
74	T	a-Methylstyrene	50.000	55.128	-10.3	124	-0.01
75	T	tert-Butylbenzene	50.000	43.823	12.4	115	-0.01
76	T	1,2,4-Trimethylbenzene	50.000	46.231	7.5	119	-0.01
77	T	sec-Butylbenzene	50.000	43.239	13.5	110	-0.01
78	T	p-Isopropyltoluene	50.000	42.337	15.3	106	0.00
79	T	1,3-Dichlorobenzene	50.000	50.299	-0.6	130	-0.01
80	T	1,4-Dichlorobenzene	50.000	48.752	2.5	127	-0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\040699\9M02272.D Vial: 2
Acq On : 6 Apr 1999 8:49 Operator: SLT
Sample : 50UG/L STD 8260B Inst : HPMS_9
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AFCEEWT.M (RTE Integrator)
Title : Method 8260B Water Analysis 02/19/99
Last Update : Sun Mar 21 11:44:31 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
81	T	n-Butylbenzene	50.000	37.845	24.3	95	-0.01	R
82	T	1,2-Dichlorobenzene	50.000	49.033	1.9	127	-0.01	
83	T	1,2-Dibromo-3-Chloropropane	50.000	47.624	4.8	105	0.00	
84	T	1,2,4-Trichlorobenzene	50.000	40.660	18.7	104	-0.02	
85	T	Hexachlorobutadiene	50.000	35.852	28.3#	92	-0.01	R
86	T	Naphthalene	50.000	39.149	21.7	101	-0.02	R
87	T	1,2,3-Trichlorobenzene	50.000	39.099	21.8	102	-0.01	R

507 719

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG55580

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG55580-01

Initial Calibration HPMS9 19-FEB-99

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.21	0.50	
1,1,1-Trichloroethane	0.23	0.80	
1,1,2,2-Tetrachloroethane	0.14	0.50	
1,1,2-Trichloroethane	0.24	1.0	
1,1-Dichloroethane	0.23	0.50	
1,1-Dichloroethene	0.21	1.2	
1,1-Dichloropropene	0.20	1.0	
1,2,3-Trichlorobenzene	0.14	1.0	
1,2,3-Trichloropropane	0.34	3.2	
1,2,4-Trichlorobenzene	0.16	2.0	
1,2,4-Trimethylbenzene	0.23	1.3	
1,2-Dibromo-3-chloropropane	0.79	2.6	
1,2-Dibromoethane	0.23	0.60	
1,2-Dichlorobenzene	0.12	1.0	
1,2-Dichloroethane	0.22	0.60	
1,2-Dichloropropane	0.20	0.50	
1,3,5-Trimethylbenzene	0.22	0.50	
1,3-Dichlorobenzene	0.19	1.2	
1,3-Dichloropropane	0.19	0.50	
1,4-Dichlorobenzene	0.14	1.0	
1-Chlorohexane	0.26	1.0	
2,2-Dichloropropane	0.19	3.5	
2-Chlorotoluene	0.17	1.0	
4-Chlorotoluene	0.29	0.60	

Comments:

3

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

507 720

Analytical Method : 8260B

AAB # : WG55580

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG55580-01

Initial Calibration HPMS9 19-FEB-99

Analyte	Method Blank	RL	Q
Benzene	0.17	0.50	
Bromobenzene	0.17	1.0	
Bromochloromethane	0.18	0.50	
Bromodichloromethane	0.19	1.0	
Bromoform	0.33	1.2	
Bromomethane	0.37	1.2	
Carbon tetrachloride	0.23	2.1	
Chlorobenzene	0.19	0.50	
Chloroethane	0.26	1.0	
Chloroform	0.17	0.50	
Chloromethane	0.26	1.3	
Dibromochloromethane	0.26	0.50	
Dibromomethane	0.21	2.4	
Dichlorodifluoromethane	0.18	1.0	
Ethylbenzene	0.25	1.0	
Hexachlorobutadiene	0.25	1.1	
Isopropylbenzene	0.16	0.50	
Methylene chloride	0.10	1.0	
Naphthalene	0.13	1.0	
Styrene	0.20	1.0	
Tetrachloroethene	0.25	1.4	
Toluene	0.20	1.1	
Trichloroethene	0.17	1.0	
Trichlorofluoromethane	0.26	1.0	

Comments:

507 721

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG55580

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-002

Units: ug/L

Method Blank ID: WG55580-01

Initial Calibration HPMS9 19-FEB-99

Analyte	Method Blank	RL	Q
Vinyl chloride	0.35	1.1	
cis-1,2-Dichloroethene	0.15	1.2	
cis-1,3-Dichloropropene	0.18	1.0	
m-,p-Xylene	0.29	1.0	
n-Butylbenzene	0.20	1.1	
n-Propylbenzene	0.19	1.0	
o-Xylene	0.21	1.1	
sec-Butylbenzene	0.25	1.3	
tert-Butylbenzene	0.21	1.4	
trans-1,2-Dichloroethene	0.21	0.60	
trans-1,3-Dichloropropene	0.21	1.0	

Comments:

5

6

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG55580

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55580-02

Units: ug/L

Initial Calibration HPMS9 19-FEB-99

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	20	23.0	115	72 - 125	
1,1,1-Trichloroethane	20	22.0	110	75 - 125	
1,1,2,2-Tetrachloroethane	20	20.6	103	74 - 125	
1,1,2-Trichloroethane	20	21.9	109.5	75 - 127	
1,1-Dichloroethane	20	19.8	99	72 - 125	
1,1-Dichloroethene	20	17.4	87	75 - 125	
1,1-Dichloropropene	20	21.6	108	75 - 125	
1,2,3-Trichlorobenzene	20	15.9	79.5	75 - 137	
1,2,3-Trichloropropane	20	22.7	113.5	75 - 125	
1,2,4-Trichlorobenzene	20	15.8	79	75 - 135	
1,2,4-Trimethylbenzene	20	17.7	88.5	75 - 125	
1,2-Dibromo-3-chloropropane	20	18.6	93	59 - 125	
1,2-Dibromoethane	20	21.5	107.5	75 - 125	
1,2-Dichlorobenzene	20	20.0	100	75 - 125	
1,2-Dichloroethane	20	22.7	113.5	68 - 127	
1,2-Dichloropropane	20	19.5	97.5	70 - 125	
1,3,5-Trimethylbenzene	20	19.0	95	72 - 112	
1,3-Dichlorobenzene	20	19.9	99.5	75 - 125	
1,3-Dichloropropane	20	21.7	108.5	75 - 125	
1,4-Dichlorobenzene	20	19.1	95.5	75 - 125	
1-Chlorohexane	20	17.9	89.5	75 - 125	
2,2-Dichloropropane	20	22.1	110.5	75 - 125	
2-Chlorotoluene	20	21.5	107.5	73 - 125	
4-Chlorotoluene	20	20.5	102.5	74 - 125	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG55580

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55580-02

Units: ug/L

Initial Calibration HPMS9 19-FEB-99

Analyte	Expected	Found	%R	Control Limits	Q
Benzene	20	19.5	97.5	75 - 125	
Bromobenzene	20	21.4	107	75 - 125	
Bromochloromethane	20	19.8	99	73 - 125	
Bromodichloromethane	20	23.6	118	75 - 125	
Bromoform	20	24.9	124.5	75 - 125	
Bromomethane	20	21.3	106.5	72 - 125	
Carbon tetrachloride	20	21.2	106	62 - 125	
Chlorobenzene	20	20.3	101.5	75 - 125	
Chloroethane	20	20.0	100	65 - 125	
Chloroform	20	22.2	111	74 - 125	
Chloromethane	20	15.9	79.5	75 - 125	
Dibromochloromethane	20	23.9	119.5	73 - 125	
Dibromomethane	20	21.7	108.5	69 - 127	
Dichlorodifluoromethane	20	12.6	63	75 - 125	*
Ethylbenzene	20	19.0	95	75 - 125	
Hexachlorobutadiene	20	11.6	58	75 - 125	*
Isopropylbenzene	20	18.5	92.5	75 - 125	
Methylene chloride	20	17.2	86	75 - 125	
Naphthalene	20	17.1	85.5	75 - 125	
Styrene	20	19.7	98.5	75 - 125	
Tetrachloroethene	20	19.3	96.5	71 - 125	
Toluene	20	20.2	101	74 - 125	
Trichloroethene	20	19.0	95	71 - 125	
Trichlorofluoromethane	20	17.1	85.5	67 - 125	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

507 724

Analytical Method : 8260B

AAB # : WG55580

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG55580-02

Units: ug/L

Initial Calibration HPMS9 19-FEB-99

Analyte	Expected	Found	%R	Control Limits	Q
Vinyl chloride	20	15.8	79	46 - 134	
cis-1,2-Dichloroethene	20	20.0	100	75 - 125	
cis-1,3-Dichloropropene	20	22.2	111	74 - 125	
m-,p-Xylene	40	37.0	92.5	75 - 125	
n-Butylbenzene	20	12.7	63.5	75 - 125	*
n-Propylbenzene	20	18.8	94	75 - 125	
o-Xylene	20	18.9	94.5	75 - 125	
sec-Butylbenzene	20	14.3	71.5	75 - 125	*
tert-Butylbenzene	20	16.5	82.5	75 - 125	
trans-1,2-Dichloroethene	20	20.1	100.5	75 - 125	
trans-1,3-Dichloropropene	20	23.2	116	66 - 125	

Comments:

507 725

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8260B AAB#: WG55580

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0500AE	1-Apr-99	2-Apr-99	N/A	14	N/A	6-Apr-99	14	5	
TRIP BLANK #1	1-Apr-99	2-Apr-99	N/A	14	N/A	6-Apr-99	14	5	
S13SFU0100AF	1-Apr-99	2-Apr-99	N/A	14	N/A	6-Apr-99	14	5	

Comments:

Forms by ChemSW(T07)[04-0845;v1.0;12/1/07

AFCEE FORM O-9
Page 1 of 1

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 726

Workgroup #(s) NA
Analysis Date 2/19/99

Analyst JLC
Instrument HP5973

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem: Condensation in Syringe ; 2-CVE not showing up

Action Taken: Replaced O-Ring in the Syringe ; changed trap ; condition for 1 hour

Returned to Control? Yes ✓ No ___ Additional Discussion on Page ___

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Anal Tim
9M01380	NA	1	BFB 50 PPM STD	10ml	NA	✓	1	—	2-42-28	—	133
9M01381		2	50 PPB STD M8260WT			✓		—	ISTD0219	5-42-25 5431S	—
9M01382		3	20			✓		—			—
9M01383		4	10			✓		—			—
9M01384		5	5			✓		—			—
9M01385		6	2			✓		—			—
9M01386		7	1			✓		—			—
9M01387		8	0.5			✓		—			—
9M01388		9	0.5			Not Used		—			—
9M01389		10	100			✓		—			—
9M01390	—	11	Blank			✓		—	—	—	—

Calibration STD's ISTD0219 - 54305 54306 5431S 54324 54304 54321 54320
Comments:

Alternate Source/QC STD's LCS0219 - 54316 54307 54311 54308

Reviewed By: [signature] 2/23/99

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

507 727

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) NA
Analysis Date 2/19/99

Analyst SLT
Instrument HP5973

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	An T
9M01391	NA	12	20 PPB Alt Source	10ml	NA	✓	1	—	LCSOZ19	54225 54315	
						SLT 2/19/99					

Calibration STD's —
Comments:

Alternate Source/QC STD's —

Reviewed By: [signature] 2/23/99

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interferencee with internal and/or surrogate standards

SMI = Sample matrix interferencee
MT = Missed Tune, beyound method tuning requirements
CC = Continui[redacted]ibration failed
C/O = Suspec[redacted]ryover from previous sample

SOP Referenc[redacted]
1 MSV01 Revision 0 [redacted]0)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP R[redacted]

507 728

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG55580
Analysis Date 4/6/99

Analyst SLT
Instrument HPMS9

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: SLT 4/6/99

Returned to Control? Yes ____ No ____

Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
9M02271	NA	1	BFB 50 PPM STD	10ml	NA	✓	1	—	S4407	—	918
9M02272		2	50 ppb STD -M8260			✓		—	VSTD0401	S-44-05 S-44-06	—
9M02273		3	VBLK0406 VOA WATER BLANK			RR		—	—		—
9M02274		4	20 PPB QC SPIKE -M8260			✓		—	LCS0401		—
9M02275		5	VBLK0406 VOA WATER BLANK			✓		—	—		—
9M02276	42	6	L9904022-01 826-AF98-Kelly		1000X	Run Str		—	—		—
9M02277		7	1 02 1		1	1		9M02278 4/6/99	—		—
9M02278		8	L9904022-01 826-AF98-Kelly		1	RR 10X		9M02280 1	—		—
9M02279		9	02		1	RR Str.		9M02281 1	—		—
9M02280		10	02		1	✓		—	—		—
9M02281		11	01		10	✓		—	—		—

Calibration STD's VSTD0401 - S-44-24 S-44-25 S-44-27 S-43-50 S-44-28 S-44-17

Alternate Source/QC STD's LCS04-01 - S-44-11 S-44-05 S-44-12 S-44-01

Comments:

Reviewed By:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carry

SOP References
1 MSV01 Revision 0 (8/97)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 729

Workgroup #(s) WG55580
Analysis Date 4/6/99

Analyst SLT
Instrument HPMS9

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analy Tim
9M02282	<2	12	L9904022-01 MS 826-AF98-Kelly	10ml	10	✓	1	—	LCS0401	S-44-05 S-44-06	—
9M02283	"	13	" 01MSD "	"	10	✓	"	—	"	"	—
9M02284	"	14	L9904068-01 826-AF98	"	1	✓	"	—	"	"	—
9M02285	"	15	" 02 "	"	1	✓	"	—	"	"	—
9M02286	"	16	" 04 "	"	1	✓	"	—	"	"	—
9M02287	<2	17	L9909540-01A Verser 826-LOWRY	10ml	1	✓	1	—	"	"	—
9M02288	"	18	" 02A "	"	1	✓	"	—	"	"	—
9M02289	"	19	L9903541-01 "	"	1	✓	"	—	"	"	—
9M02290	NA	20	TCLP Blank A Ext 4/5/99	"	1	✓	"	—	"	"	1913
											—

SLT 4/8/99

Calibration STD's VSTD0401 Alternate Source/QC STD's LCS0401 Reviewed By:

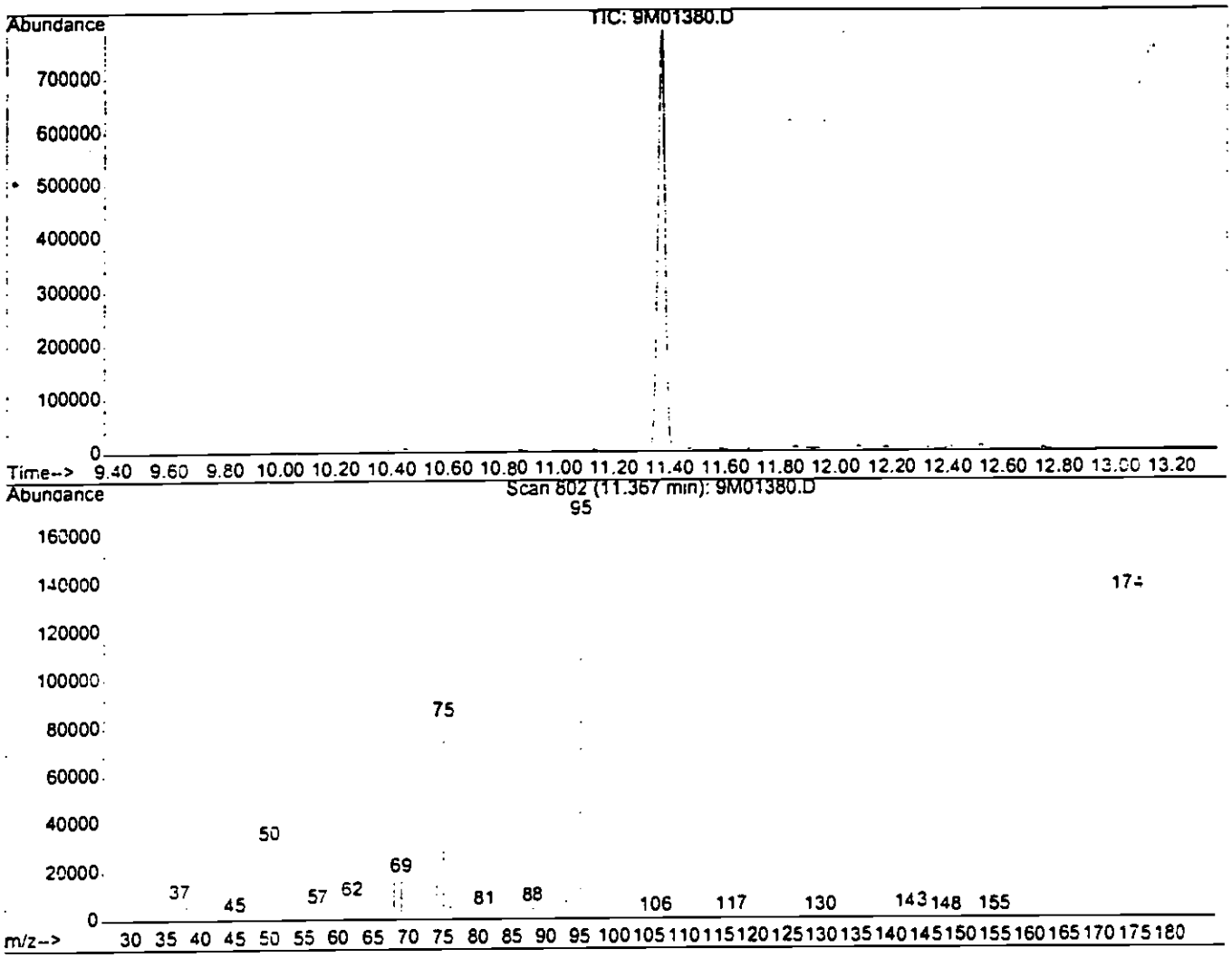
√ = Compliant Analysis, Reanalysis complete
R = Rerun
[redacted] = Rerun at a specified level
I = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time [redacted] yound method tuning requirements
CC = Continuing [redacted] ration failed
C/O = Suspected carryover from previous sampl

SOP References
1 MSV01 Revision 0 - (82[redacted])
2 MSV10 Revision 0 (624)

Data File : C:\HPCHEM\1\DATA\021999\9M01380.D
Acq On : 19 Feb 1999 13:36
Sample : 50NG BFB (S-42-28)
Misc : 10ML
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AFCEEWT.M (RTE Integrator)
Title : Method 8260B Water Analysis 02/16/99

Vial: 1
Operator: SLT
Inst : HPMS_9
Multiplr: 1.00



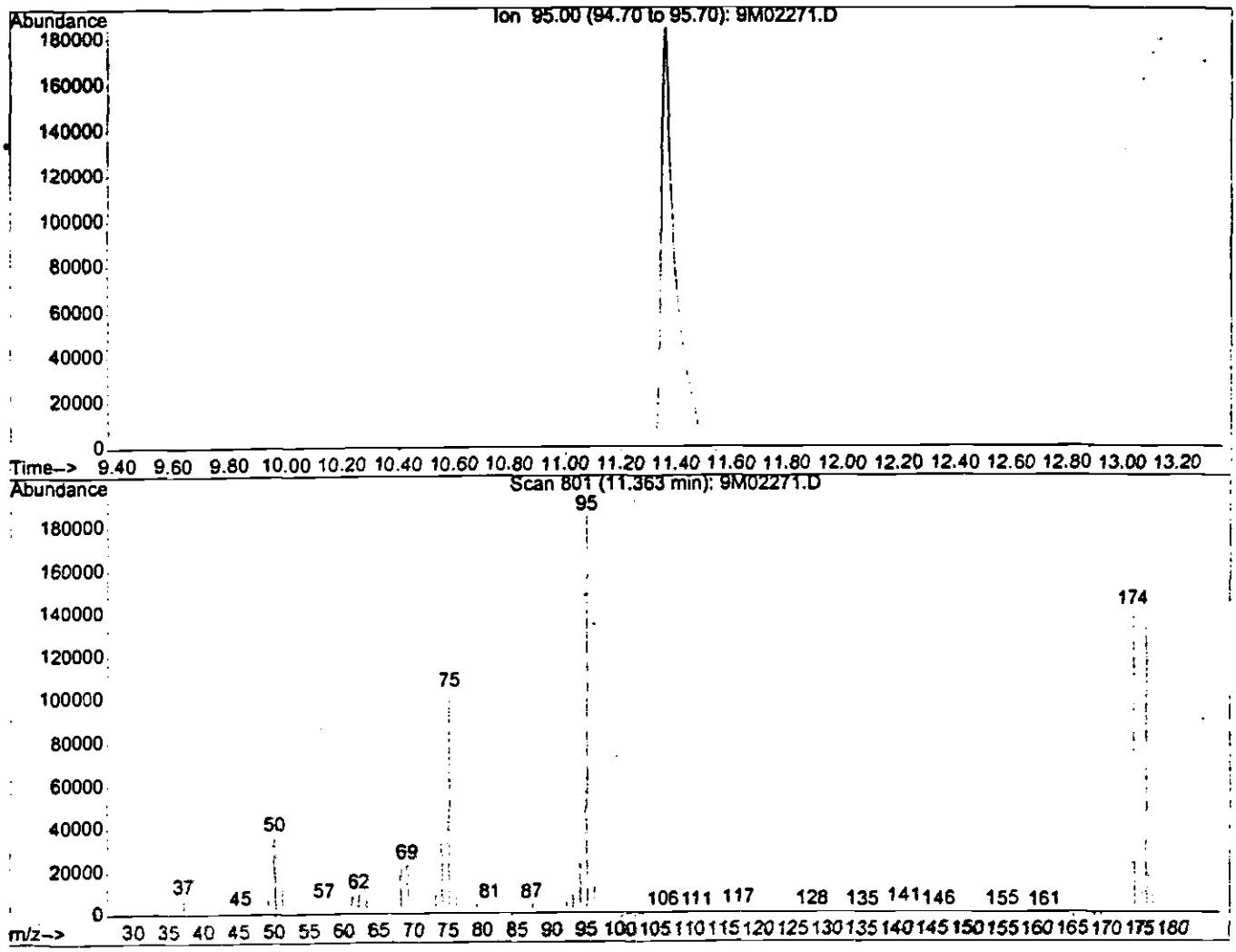
Spectrum Information: Scan 802

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	31096	PASS
75	95	30	60	49.9	82816	PASS
95	95	100	100	100.0	165952	PASS
96	95	5	9	7.5	12381	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.8	134080	PASS
175	174	5	9	7.9	10596	PASS
176	174	95	101	97.5	130664	PASS
177	176	5	9	6.1	7922	PASS

9M01380.D AFCEEWT.M Fri Feb 19 13:51:54 1999 HPMS_9

Data File : C:\HPCHEM\1\DATA\040699\9M02271.D
Acq On : 6 Apr 1999 7:18
Sample : 50NG BFB
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 04/01/99

Vial: 1
Operator: SLT
Inst : HPMS_9
Multiplr: 1.00



Spectrum Information: Scan 801

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	36560	PASS
75	95	30	60	55.6	102856	PASS
95	95	100	100	100.0	184896	PASS
96	95	5	9	6.8	12550	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.2	140864	P[illegible]S
175	174	5	9	7.3	10336	S
176	174	95	101	97.2	136896	[illegible]
177	176	5	9	6.0	8199	[illegible]

9M02271.D 8260WT.M Tue Apr 06 08:31:40 1999 HPMS_9

Post-Excavation QA/QC

VOCs QA/QC

FPM

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : **8260B**
Lab Name : **Kemron Environmental Services**
Base/Command : **Carswells AFB**

AAB # : **WG60129**
Contract # : **F41624-95-D-8003-0023**
Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SFU0300BA	L9906513-04
S13SUN0502BB	L9906513-05
S13SFU0410BA	L9906513-06
S13SFU0506BA	L9906513-07
S13SFU0610BA	L9906513-08
S13SFU0606BA	L9906513-09
S13SFU0706BB	L9906513-10
S13SFU0810BA	L9906513-11
S13SFU0910BB	L9906513-12
S13SFU1010BB	L9906513-13

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe
Name: **Dennis S. Tepe**

Date: **13-JUL-99**
Title: **Laboratory Manager**

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260B
AAB # : WG60129
Lab Name : Kemron Environmental Services
Contract # : F41624-95-D-8003-0023
Base/Command : Carswells AFB
Prime Contractor : FPM

Field sample ID	
S13SFU1110BB	L9906513-14
S13SFU1110BC/DUP	L9906513-15
S13SFU1110BS/MS	L9906513-16
S13SFU1110BD/MSD	L9906513-17

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 13-JUL-99
Title: Laboratory Manager

Order #99-06-513
July 15, 1999 16:35

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

507 736

SAMPLE RECEIPT AND LOGIN:

L9906513/S13SFU502BB: Bottle ID was changed to S13SUN0502BB as identified in the chain-of-custody, per Randy Martzela.

S13SFU0606BA 3 bottles received not on chain-of-custody, added per Randy Mattzela.

VOLATILE ORGANICS - 8260:

Description of "R" flags in this Sample Delivery Group (SDG) are as follows:

Analysis Date	Instrument	Matrix	Analyte	Description
06/03/99	HPMS9	Water	Naphthalene	Second source calibration verification CL exceeded (high)
06/24/99	HPMS6	Soil	Bromomethane	Second source calibration verification CL exceeded (low)
			Trichlorofluoromethane	Second source calibration verification CL exceeded (low)
06/27/99	HPMS6	Soil	Bromomethane	CCV % Drift CL exceeded (high)
			Trichlorofluoromethane	CCV % Drift CL exceeded (low)
06/29/99	HPMS9	Water	Hexachlorobutadiene	CCV % Drift CL exceeded (low)
			Bromoform	CCV % Drift CL exceeded (high)
06/29/99	HPMS9	Water	Hexachlorobutadiene	LCS % R <LCL

The soil LCS analyzed 06/27/99 yielded a recovery result for bromomethane above the upper control limits.

The water LCS analyzed 6/29/99 yielded recovery results for 1,3,5-Trimethylbenzene dichlorodifluoromethane, bromomethane and carbon tetrachloride above the upper control limits.

Several soil MS/MSD results were outside control limits.

SEMIVOLATILE ORGANICS - 8270:

The second source standard failed to meet criteria for 2,4-dinitrophenol and 4-nitroaniline. The LCS associated with the water sample yielded % recoveries for several analytes that were above advisory limits. The MS/MSD yielded % recoveries for several analytes that were outside advisory limits. Sample fraction 03 yielded a % recovery for phenol-d5 that was outside acceptable limits. Several samples yielded % recoveries for 2-fluorophenol that were outside acceptable limits. All results have been appropriately flagged.

METALS - 6010/7000:

There were no technical difficulties encountered during the analysis of this SDG.

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

Calibration Table Report
Method: 8260BSL.M
Title: Method 8260B_SOIL - ICAL 06/24/99 HPMS 6
Last Calibration: Fri Jun 25 08:57:13 1999

Calibration Files

Compound	1	2	5	10	20	50	100	200	Avg	%RSD	
Fluorobenzene	ISTD										
Dichlorodifluoromethane	0.239	0.225	0.235	0.277	0.247	0.238	0.249		0.244	6.788	
Chloromethane	0.196	0.172	0.163	0.183	0.166	0.165	0.169		0.170	9.444	
Vinyl Chloride	0.112	0.115	0.099	0.124	0.103	0.090	0.094		0.104	13.627	
Bromomethane	0.085	0.093	0.091	0.095	0.090	0.083	0.091		0.090	4.681	
Chloroethane	0.079	0.078	0.090	0.098	0.089	0.084	0.090		0.087	7.062	
Trichlorofluoromethane	0.243	0.241	0.370	0.291	0.315	0.389	0.255		0.300	20.071	QR,F
Isoprene	0.336	0.278	0.328	0.405	0.369	0.358	0.373		0.350	11.538	
Acrolein			0.005	0.009	0.011	0.011	0.006		0.008	32.254	QR,F
1,1,2-Trichloro-1,2,2-Trifluoroet	0.242	0.228	0.233	0.286	0.248	0.238	0.252		0.247	7.737	
Acetone			0.121	0.091	0.074	0.057	0.054	0.052	0.075	36.432	LR,F
1,1-Dichloroethene	0.188	0.205	0.207	0.255	0.219	0.219	0.224		0.217	9.580	
Dimethyl Sulfide	0.184	0.190	0.212	0.240	0.236	0.228	0.251		0.220	11.652	
Iodomethane	0.150	0.150	0.179	0.221	0.225	0.237	0.249		0.202	20.449	LR,F
Methylene Chloride	0.388	0.337	0.277	0.277	0.235	0.220	0.225		0.280	22.298	LR,F
Carbon Disulfide	1.003	0.746	0.788	0.938	0.838	0.802	0.825		0.848	10.588	
Acrylonitrile	0.045	0.054	0.059	0.059	0.063	0.057	0.062	0.062	0.058	10.140	
Methyl Tert Butyl Ether	0.553	0.534	0.572	0.577	0.578	0.553	0.578		0.564	3.033	
trans-1,2-Dichloroethene	0.217	0.230	0.231	0.273	0.237	0.240	0.242		0.239	7.307	
n-Hexane	0.510	0.383	0.386	0.456	0.411	0.387	0.399		0.419	11.257	
Vinyl Acetate	0.292	0.295	0.339	0.329	0.342	0.330	0.346		0.325	6.887	
1,1-Dichloroethane	0.376	0.388	0.386	0.460	0.397	0.397	0.403		0.401	6.803	
2-Butanone			0.221	0.086	0.087	0.077	0.082	0.081	0.106	53.577	LR,F
2,2-Dichloropropane	0.305	0.314	0.332	0.410	0.358	0.366	0.366		0.349	10.254	
cis-1,2-Dichloroethene	0.229	0.249	0.250	0.302	0.261	0.264	0.267		0.260	8.606	
Chloroform	0.378	0.401	0.400	0.465	0.408	0.411	0.415		0.411	6.424	
Bromochloromethane	0.086	0.110	0.107	0.126	0.116	0.114	0.118		0.111	11.236	
Dibromofluoromethane			0.340	0.294	0.257	0.245	0.244	0.238	0.270	14.795	
1,1,1-Trichloroethane	0.332	0.356	0.355	0.445	0.387	0.391	0.393		0.380	9.628	
Cyclohexane	0.430	0.335	0.397	0.490	0.449	0.430	0.442		0.425	11.372	
1,1-Dichloropropene	0.288	0.290	0.296	0.365	0.312	0.314	0.320		0.312	8.557	
Carbon Tetrachloride	0.262	0.284	0.298	0.376	0.329	0.340	0.344		0.319	12.432	
1,2-Dichloroethane-d4			0.276	0.243	0.229	0.226	0.216		0.238	9.912	
1,2-Dichloroethane	0.256	0.276	0.277	0.302	0.270	0.268	0.271		0.274	5.169	
Benzene	0.909	0.925	0.916	1.088	0.941	0.941	0.946		0.952	6.458	
Trichloroethene	0.261	0.279	0.277	0.335	0.287	0.290	0.292		0.289	7.911	
1,2-Dichloropropane	0.200	0.216	0.213	0.248	0.219	0.219	0.225		0.220	6.657	
Bromodichloromethane	0.253	0.262	0.277	0.318	0.287	0.295	0.303		0.285	8.017	
Dibromomethane	0.103	0.112	0.121	0.129	0.117	0.115	0.121		0.117	7.022	
2-Chloroethyl Vinyl Ether	0.056	0.068	0.082	0.082	0.080	0.076	0.086		0.076	13.711	
Methyl-2-Pentanone			0.063	0.063	0.067	0.063	0.069	0.069	0.066	4.454	
cis-1,3-Dichloropropene	0.288	0.305	0.326	0.365	0.331	0.339	0.346		0.3267	7.7071	
Methyl Disulfide	0.089	0.098	0.192	0.161	0.177	0.19	0.2		0.1582	29.189	LR,F
Chlorobenzene-d5	ISTD										
Toluene-d8			1.523	1.311	1.241	1.21	1.125		1.2822	11.734	
Toluene	1.352	1.356	1.357	1.626	1.398	1.397	1.395		1.4114	6.6529	
Ethyl Methacrylate	0.324	0.298	0.353	0.339	0.36	0.365	0.371		0.3415	7.1207	
trans-1,3-Dichloropropene	0.332	0.358	0.392	0.445	0.411	0.422	0.428		0.3967	10.177	
1,1,2-Trichloroethane	0.225	0.243	0.244	0.264	0.238	0.238	0.241		0.2413	4.2945	
2-Hexanone			0.195	0.167	0.18	0.161	0.176	0.174	0.1754	6.6223	
1,3-Dichloropropane	0.381	0.409	0.407	0.439	0.401	0.399	0.402		0.4004	4.2902	
Tetrachloroethene	0.282	0.309	0.318	0.383	0.327	0.326	0.324		0.3242	9.4309	
Dibromochloromethane	0.229	0.253	0.269	0.304	0.292	0.3	0.313		0.28	10.921	
1,2-Dibromoethane	0.223	0.236	0.251	0.269	0.251	0.248	0.255		0.2475	5.0397	
1-Chlorohexane	0.472	0.381	0.461	0.568	0.517	0.508	0.523		0.49	12.157	
Chlorobenzene	0.9	0.959	0.931	1.097	0.948	0.945	0.943		0.9604	6.5566	
1,1,1,2-Tetrachloroethane	0.276	0.297	0.324	0.366	0.33	0.338	0.336		0.3239	9.0233	
Ethylbenzene	0.503	0.507	0.508	0.617	0.527	0.525	0.523		0.5301	7.4308	

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m-,p-Xylene	0.618	0.623	0.633	0.755	0.65	0.643	0.632	0.6505	7.28	
o-Xylene	0.567	0.593	0.604	0.707	0.615	0.62	0.624	0.6187	7.0399	
Styrene	0.882	0.944	0.99	1.173	1.033	1.045	1.058	1.0179	9.0729	
Bromoform	0.117	0.132	0.151	0.166	0.166	0.175	0.19	0.1568	16.123	LR,F
Isopropylbenzene	1.499	1.56	1.589	1.925	1.658	1.668	1.667	1.6518	8.2217	
1,4-Dichlorobenzene-d4	ISTD									
1,1,2,2-Tetrachloroethane	0.503	0.551	0.591	0.602	0.559	0.548	0.57	0.5605	5.7326	
p-Bromofluorobenzene			1.11	0.969	0.917	0.887	0.838	0.9443	11.027	
1,2,3-Trichloropropane	0.147	0.172	0.187	0.188	0.175	0.174	0.179	0.1787	7.8843	
trans-1,4-Dichloro-2-Butene	0.167	0.139	0.199	0.158	0.163	0.156	0.167	0.1635	11.249	
n-Propylbenzene	3.268	3.401	3.463	4.233	3.574	3.624	3.55	3.5876	8.5977	
Bromobenzene	0.713	0.743	0.748	0.859	0.756	0.765	0.767	0.7644	5.9361	
1,3,5-Trimethylbenzene	2.454	2.466	0.942	2.969	2.549	2.589	2.553	2.3606	27.496	LR,F
2-Chlorotoluene	2.043	2.009	2.149	2.56	2.141	2.141	2.188	2.1758	8.3218	
4-Chlorotoluene	1.953	2.1	2.034	2.396	2.079	2.159	2.061	2.1119	6.6496	
t-Methylstyrene	1.467	1.222	1.432	1.578	1.491	1.482	1.515	1.4552	7.7192	
tert-Butylbenzene	2.325	2.379	2.431	2.914	2.496	2.521	2.52	2.5124	7.6498	
1,2,4-Trimethylbenzene	3.026	2.811	2.691	3.072	2.597	2.622	2.57	2.7699	7.4642	
sec-Butylbenzene	3.198	3.236	3.315	4.045	3.409	3.455	3.397	3.4364	8.2724	
p-Isopropyltoluene	2.914	2.874	2.984	3.672	3.105	3.161	3.118	3.1176	8.5648	
1,3-Dichlorobenzene	1.461	1.507	1.518	1.779	1.528	1.56	1.553	1.5578	6.5952	
1,4-Dichlorobenzene	1.54	1.599	1.586	1.797	1.561	1.577	1.563	1.6032	5.4492	
n-Butylbenzene	2.486	2.452	2.538	3.12	2.632	2.662	2.626	2.6451	8.4585	
1,2-Dichlorobenzene	1.331	1.349	1.372	1.564	1.362	1.388	1.389	1.393	5.5888	
1,2-Dibromo-3-Chloropropane	0.091	0.108	0.123	0.12	0.121	0.12	0.129	0.1159	10.912	
1,2,4-Trichlorobenzene	0.893	0.885	0.926	1.068	0.938	0.946	0.958	0.9437	6.8097	
Hexachlorobutadiene	0.429	0.452	0.481	0.595	0.49	0.513	0.512	0.4959	10.729	
Naphthalene	2.212	2.075	1.959	2.028	1.894	1.779	1.919	1.9809	7.0539	
1,2,3-Trichlorobenzene	0.788	0.802	0.814	0.929	0.827	0.83	0.842	0.8332	5.5331	

Fri Jun 25 09:16:52 1999

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507 740

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8260B

AAB#: WG60129

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: HPMS_6

Initial Calibration ID: HPMS6 24-JUN-99

2nd Source ID: ALT HPMS6 24-JUN-99

Analyte	% D	Q
Chloromethane *	-9.71	
1,1-DCA *	9.75	
Bromoform *	-8.22	
Chlorobenzene *	7.33	
1,1,2,2-TCA *	6.11	
1,1-DCE #	16.64	
Chloroform #	10.55	
1,2-DCP #	7.82	
Toluene #	8.31	
Ethylbenzene #	8.63	
Vinyl chloride #	6.30	
1,1,1,2-Tetrachloroethane	9.31	
1,1,1-TCA	12.79	
1,1,2-TCA	7.18	
1,1-Dichloropropene	22.91	
1,2,3-Trichlorobenzene	6.69	
1,2,3-Trichloropropane	10.87	
1,2,4-Trichlorobenzene	4.57	
1,2,4-Trimethylbenzene	0.85	
1,2-DCA	7.37	
1,2-DCB	6.32	
1,2-Dibromo-3-chloropropane	9.12	
1,2-EDB	9.75	
1,3,5-Trimethylbenzene	6.95	
1,3-DCB	5.47	
1,3-Dichloropropane	7.78	
1,4-DCB	2.85	
1-Chlorohexane	8.62	
2,2-Dichloropropane	9.79	
2-Chlorotoluene	6.71	
4-Chlorotoluene	5.12	
Benzene	7.93	
Bromobenzene	5.34	
Bromochloromethane	14.78	
Bromodichloromethane	10.22	
Bromomethane	33.44	*
Carbon Tetrachloride	13.46	
Chloroethane	5.56	
Cis-1,2-DCE	8.66	
Cis-1,3-Dichloropropene	10.55	
Dibromochloromethane	11.85	
Dibromomethane	10.55	
Dichlorodifluoromethane	21.81	
Hexachlorobutadiene	8.28	
Isopropylbenzene	7.07	
m+p-Xylene	7.30	
Methylene chloride	12.87	
n-Butylbenzene	7.74	
n-Propylbenzene	8.13	
Naphthalene	2.61	
o-Xylene	7.19	
Sec-Butylbenzene	5.07	
Styrene	9.87	
TCE	9.55	
Tert-butylbenzene	6.85	
Tetrachloroethene	9.21	
Trans-1,2-DCE	18.56	
Trans-1,3-Dichloropropene	7.00	
Trichlorofluoromethane	-36.08	*

Comments:

Data File : C:\HPCHEM\1\DATA\062799\6M14274.D Vial: 2
Acq On : 27 Jun 1999 14:24 Operator: CMS
Sample : WG60129-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(mir
1	I	Fluorobenzene	50.000	50.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	50.000	54.099	-8.2	99	0.00
3	P	Chloromethane	50.000	50.252	-0.5	105	0.00
4	C	Vinyl Chloride	50.000	58.408	-16.8	120	0.00
5	T	Bromomethane	50.000	63.176	-26.4#	121	-0.01
6	T	Chloroethane	50.000	58.757	-17.5	108	0.00
7	T	Trichlorofluoromethane	50.000	37.431	25.1#	65	0.00
8	T	Isoprene	50.000	53.059	-6.1	92	0.00
9	T	Acrolein	100.000	5.054	94.9#	6	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	53.642	-7.3	99	0.00
11	T	Acetone	50.000	63.268	-26.5#	104	0.00
12	C	1,1-Dichloroethene	50.000	49.362	1.3	87	0.00
13	T	Dimethyl Sulfide	50.000	54.513	-9.0	94	0.00
14	T	Iodomethane	50.000	36.417	27.2#	67	0.00
15	T	Methylene Chloride	50.000	48.324	3.4	88	0.00
16	T	Carbon Disulfide	50.000	48.572	2.9	91	0.00
17	T	Acrylonitrile	50.000	55.850	-11.7	100	0.00
18	T	Methyl Tert Butyl Ether	50.000	52.883	-5.8	96	0.00
19	T	trans-1,2-Dichloroethene	50.000	49.606	0.8	88	0.00
20	T	n-Hexane	50.000	49.111	1.8	95	0.00
21	T	Vinyl Acetate	50.000	42.191	15.6	74	0.00
22	P	1,1-Dichloroethane	50.000	50.271	-0.5	90	0.00
23	T	2-Butanone	50.000	53.928	-7.9	101	0.00
24	T	2,2-Dichloropropane	50.000	48.273	3.5	82	0.00
25	T	cis-1,2-Dichloroethene	50.000	50.837	-1.7	89	0.00
26	C	Chloroform	50.000	52.612	-5.2	94	0.00
27	T	Bromochloromethane	50.000	54.136	-8.3	94	0.00
28	S	Dibromofluoromethane	50.000	46.007	8.0	90	0.00
29	T	1,1,1-Trichloroethane	50.000	51.099	-2.2	88	0.00
30	T	Cyclohexane	50.000	52.126	-4.3	92	0.00
31	T	1,1-Dichloropropene	50.000	53.214	-6.4	94	0.00
32	T	Carbon Tetrachloride	50.000	49.186	1.6	82	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.883	-3.8	96	0.00
34	T	1,2-Dichloroethane	50.000	54.957	-9.9	100	0.00
35	T	Benzene	50.000	48.678	2.6	88	0.00
36	T	Trichloroethene	50.000	51.527	-3.1	91	0.00
37	C	1,2-Dichloropropane	50.000	49.444	1.1	88	0.00
38	T	Bromodichloromethane	50.000	52.003	-4.0	89	0.00
39	T	Dibromomethane	50.000	54.387	-8.8	98	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	58.432	-16.9	104	0.00
41	T	4-Methyl-2-Pentanone	50.000	54.331	-8.7	101	0.00

(#) = Out of Range
6M14274.D 8260BSL.M Sun Jun 27 14:52:40 1999 HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\062799\6M14274.D Vial: 2
Acq On : 27 Jun 1999 14:24 Operator: CMS
Sample : WG60129-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min
42	T	cis-1,3-Dichloropropene	50.000	50.468	-0.9	87	0.00
43	T	Dimethyl Disulfide	50.000	28.977	42.0#	53	0.00
44	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
45	S	Toluene-d8	50.000	46.354	7.3	89	0.00
46	C	Toluene	50.000	49.323	1.4	92	0.00
47	T	Ethyl Methacrylate	50.000	53.072	-6.1	97	0.00
48	T	trans-1,3-Dichloropropene	50.000	52.576	-5.2	92	0.00
49	T	1,1,2-Trichloroethane	50.000	50.410	-0.8	95	0.00
50	T	2-Hexanone	50.000	51.751	-3.5	104	0.00
51	T	1,3-Dichloropropane	50.000	50.359	-0.7	95	0.00
52	T	Tetrachloroethene	50.000	50.293	-0.6	92	0.00
53	T	Dibromochloromethane	50.000	51.391	-2.8	89	0.00
54	T	1,2-Dibromoethane	50.000	51.442	-2.9	95	0.00
55	T	1-Chlorohexane	50.000	51.030	-2.1	91	0.00
56	P	Chlorobenzene	50.000	48.904	2.2	92	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	48.704	2.6	86	0.00
58	C	Ethylbenzene	50.000	48.570	2.9	91	0.00
59	T	m-,p-Xylene	100.000	97.658	2.3	91	0.00
60	T	o-Xylene	50.000	49.508	1.0	91	0.00
61	T	Styrene	50.000	50.302	-0.6	91	0.00
62	P	Bromoform	50.000	43.367	13.3	85	0.00
63	T	Isopropylbenzene	50.000	50.414	-0.8	93	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	49.920	0.2	98	0.00
66	S	p-Bromofluorobenzene	50.000	45.949	8.1	91	0.00
67	T	1,2,3-Trichloropropane	50.000	53.841	-7.7	104	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	50.105	-0.2	101	0.00
69	T	n-Propylbenzene	50.000	48.880	2.2	93	0.00
70	T	Bromobenzene	50.000	48.088	3.8	92	0.00
71	T	1,3,5-Trimethylbenzene	50.000	48.851	2.3	93	0.00
72	T	2-Chlorotoluene	50.000	48.149	3.7	94	0.00
73	T	4-Chlorotoluene	50.000	49.187	1.6	92	0.00
74	T	a-Methylstyrene	50.000	49.853	0.3	94	0.00
75	T	tert-Butylbenzene	50.000	49.291	1.4	94	0.00
76	T	1,2,4-Trimethylbenzene	50.000	45.245	9.5	92	0.00
77	T	sec-Butylbenzene	50.000	48.738	2.5	93	0.00
78	T	p-Isopropyltoluene	50.000	48.975	2.0	93	0.00
79	T	1,3-Dichlorobenzene	50.000	48.075	3.8	92	0.00
80	T	1,4-Dichlorobenzene	50.000	47.167	5.7	92	0.00

(#) = Out of Range
6M14274.D 8260BSL.M Sun Jun 27 14:52:45 1999 HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\062799\6M14274.D Vial: 2
Acq On : 27 Jun 1999 14:24 Operator: CMS
Sample : WG60129-02 50 PPB STD M8260 5G/5ML Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99
Last Update : Fri Jun 25 09:16:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min
81	T	n-Butylbenzene	50.000	47.732	4.5	91	0.00
82	T	1,2-Dichlorobenzene	50.000	47.961	4.1	92	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	51.251	-2.5	95	0.00
84	T	1,2,4-Trichlorobenzene	50.000	47.228	5.5	90	0.00
85	T	Hexachlorobutadiene	50.000	47.911	4.2	89	0.00
86	T	Naphthalene	50.000	47.812	4.4	102	0.00
87	T	1,2,3-Trichlorobenzene	50.000	47.265	5.5	91	0.00

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60129-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.0002	0.003	
1,1,1-Trichloroethane	0.00018	0.004	
1,1,2,2-Tetrachloroethane	0.00012	0.002	
1,1,2-Trichloroethane	0.00017	0.005	
1,1-Dichloroethane	0.00015	0.002	
1,1-Dichloroethene	0.00012	0.006	
1,1-Dichloropropene	0.000076	0.005	
1,2,3-Trichlorobenzene	0.00023	0.002	
1,2,3-Trichloropropane	0.00019	0.02	
1,2,4-Trichlorobenzene	0.00027	0.002	
1,2,4-Trimethylbenzene	0.00015	0.007	
1,2-Dibromo-3-chloropropane	0.00035	0.01	
1,2-Dibromoethane	0.00012	0.003	
1,2-Dichlorobenzene	0.00015	0.002	
1,2-Dichloroethane	0.00016	0.003	
1,2-Dichloropropane	0.00097	0.002	
1,3,5-Trimethylbenzene	0.000092	0.003	
1,3-Dichlorobenzene	0.00019	0.006	
1,3-Dichloropropane	0.00012	0.002	
1,4-Dichlorobenzene	0.00015	0.002	
1-Chlorohexane	0.000044	0.003	
2,2-Dichloropropane	0.00012	0.02	
2-Chlorotoluene	0.00014	0.002	
4-Chlorotoluene	0.00014	0.003	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60129-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
Benzene	0.00012	0.002	
Bromobenzene	0.00015	0.002	
Bromochloromethane	0.00011	0.002	
Bromodichloromethane	0.00012	0.004	
Bromoform	0.00016	0.006	
Bromomethane	0.00035	0.005	
Carbon tetrachloride	0.00017	0.01	
Chlorobenzene	0.00018	0.002	
Chloroethane	0.00046	0.005	
Chloroform	0.00016	0.002	
Chloromethane	0.00034	0.007	
Dibromochloromethane	0.00014	0.003	
Dibromomethane	0.00015	0.01	
Dichlorodifluoromethane	0.00031	0.005	
Ethylbenzene	0.00014	0.003	
Hexachlorobutadiene	0.00026	0.005	
Isopropylbenzene	0.000075	0.008	
Methylene chloride	0.00071	0.002	
Naphthalene	0.0009	0.002	
Styrene	0.000074	0.002	
Tetrachloroethene	0.00021	0.007	
Toluene	0.00074	0.005	
Trichloroethene	0.00018	0.01	
Trichlorofluoromethane	0.00028	0.004	

Comments:

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507 746

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG60129-03

Initial Calibration HPMS6 24-JUN-1999

Analyte	Method Blank	RL	Q
Vinyl chloride	0.00039	0.009	
cis-1,2-Dichloroethene	0.000094	0.006	
cis-1,3-Dichloropropene	0.000097	0.005	
m-,p-Xylene	0.0002	0.005	
n-Butylbenzene	0.00012	0.005	
n-Propylbenzene	0.00012	0.002	
o-Xylene	0.0001	0.005	
p-Isopropyltoluene	0.000084	0.006	
sec-Butylbenzene	0.00011	0.007	
tert-Butylbenzene	0.00012	0.007	
trans-1,2-Dichloroethene	0.000084	0.003	
trans-1,3-Dichloropropene	0.0001	0.005	

Comments:

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ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

507 747

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60129-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	.02	0.0187	93.5	62 - 108	
1,1,1-Trichloroethane	.02	0.0217	108.5	65 - 135	
1,1,2,2-Tetrachloroethane	.02	0.0194	97	64 - 135	
1,1,2-Trichloroethane	.02	0.0203	101.5	65 - 135	
1,1-Dichloroethane	.02	0.0211	105.5	62 - 135	
1,1-Dichloroethene	.02	0.0223	111.5	65 - 135	
1,1-Dichloropropene	.02	0.0244	122	65 - 135	
1,2,3-Trichlorobenzene	.02	0.0199	99.5	65 - 147	
1,2,3-Trichloropropane	.02	0.0215	107.5	65 - 135	
1,2,4-Trichlorobenzene	.02	0.0195	97.5	65 - 145	
1,2,4-Trimethylbenzene	.02	0.0188	94	65 - 135	
1,2-Dibromo-3-chloropropane	.02	0.0187	93.5	49 - 135	
1,2-Dibromoethane	.02	0.0204	102	65 - 135	
1,2-Dichlorobenzene	.02	0.0198	99	65 - 135	
1,2-Dichloroethane	.02	0.0225	112.5	58 - 137	
1,2-Dichloropropane	.02	0.0199	99.5	60 - 135	
1,3,5-Trimethylbenzene	.02	0.0201	100.5	62 - 135	
1,3-Dichlorobenzene	.02	0.0198	99	65 - 135	
1,3-Dichloropropane	.02	0.0202	101	65 - 135	
1,4-Dichlorobenzene	.02	0.0193	96.5	65 - 135	
1-Chlorohexane	.02	0.021	105	65 - 135	
2,2-Dichloropropane	.02	0.0206	103	65 - 135	
2-Chlorotoluene	.02	0.0202	101	63 - 135	
4-Chlorotoluene	.02	0.0199	99.5	64 - 135	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60129-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Benzene	.02	0.0202	101	65 - 135	
Bromobenzene	.02	0.0196	98	65 - 135	
Bromochloromethane	.02	0.0222	111	63 - 135	
Bromodichloromethane	.02	0.0204	102	65 - 135	
Bromoform	.02	0.0143	71.5	65 - 135	
Bromomethane	.02	0.0296	148	62 - 135	*
Carbon tetrachloride	.02	0.020	100	52 - 135	
Chlorobenzene	.02	0.0204	102	65 - 135	
Chloroethane	.02	0.0226	113	55 - 135	
Chloroform	.02	0.0222	111	64 - 135	
Chloromethane	.02	0.0188	94	65 - 135	
Dibromochloromethane	.02	0.0187	93.5	63 - 135	
Dibromomethane	.02	0.0219	109.5	59 - 137	
Dichlorodifluoromethane	.02	0.0233	116.5	65 - 135	
Ethylbenzene	.02	0.0206	103	65 - 135	
Hexachlorobutadiene	.02	0.0204	102	65 - 135	
Isopropylbenzene	.02	0.0203	101.5	65 - 135	
Methylene chloride	.02	0.0213	106.5	65 - 135	
Naphthalene	.02	0.0201	100.5	65 - 135	
Styrene	.02	0.0205	102.5	65 - 135	
Tetrachloroethene	.02	0.0207	103.5	61 - 135	
Toluene	.02	0.0208	104	64 - 135	
Trichloroethene	.02	0.0213	106.5	61 - 135	
Trichlorofluoromethane	.02	0.0137	68.5	57 - 135	

Comments:

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ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60129

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60129-04

Units: mg/kg

Initial Calibration HPMS6 24-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Vinyl chloride	.02	0.0254	127	36 - 144	
cis-1,2-Dichloroethene	.02	0.0208	104	65 - 135	
cis-1,3-Dichloropropene	.02	0.020	100	64 - 135	
m-,p-Xylene	.04	0.0405	101.3	65 - 135	
n-Butylbenzene	.02	0.0201	100.5	65 - 135	
n-Propylbenzene	.02	0.0202	101	65 - 135	
o-Xylene	.02	0.0201	100.5	65 - 135	
p-Isopropyltoluene	.02	0.0194	97	65 - 135	
sec-Butylbenzene	.02	0.0195	97.5	65 - 135	
tert-Butylbenzene	.02	0.020	100	65 - 135	
trans-1,2-Dichloroethene	.02	0.0227	113.5	65 - 135	
trans-1,3-Dichloropropene	.02	0.0189	94.5	56 - 135	

Comments:

507 750

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration HPMS6 24-JUN-1999

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
1,1,1,2-Tetrachloroethane		.0227	0.0189	83.3	0.0184	81.1	2.4	62 - 108	30	
1,1,1-Trichloroethane		.0227	0.0264	116.3	0.0259	114.1	1.7	65 - 135	30	
1,1,2,2-Tetrachloroethane		.0227	0.0172	75.8	0.0159	70	7.6	64 - 135	30	
1,1,2-Trichloroethane		.0227	0.0202	89	0.0185	81.5	8.8	65 - 135	30	
1,1-Dichloroethane		.0227	0.0247	108.8	0.0234	103.1	5.2	62 - 135	30	
1,1-Dichloroethene		.0227	0.0281	123.8	0.0268	118.1	4.6	65 - 135	30	
1,1-Dichloropropene		.0227	0.0302	133	0.029	127.8	4.2	65 - 135	30	
1,2,3-Trichlorobenzene		.0227	0.0103	45.4	0.0114	50.2	9.4	65 - 147	30	*
1,2,3-Trichloropropane		.0227	0.0199	87.7	0.0181	79.7	9.6	65 - 135	30	
1,2,4-Trichlorobenzene		.0227	0.0113	49.8	0.0119	52.4	5.9	65 - 145	30	*
1,2,4-Trimethylbenzene	0.00017	.0227	0.0181	79	0.018	78.5	.6	65 - 135	30	
1,2-Dibromo-3-chloropropane		.0227	0.0153	67.4	0.0145	63.9	5.3	49 - 135	30	
1,2-Dibromoethane		.0227	0.0197	86.8	0.0181	79.7	8.4	65 - 135	30	
1,2-Dichlorobenzene		.0227	0.0161	70.9	0.016	70.5	.7	65 - 135	30	
1,2-Dichloroethane		.0227	0.0234	103.1	0.0216	95.2	8.1	58 - 137	30	
1,2-Dichloropropane		.0227	0.0218	96	0.0205	90.3	6.5	60 - 135	30	
1,3,5-Trimethylbenzene		.0227	0.0202	89	0.020	88.1	1.1	62 - 135	30	
1,3-Dichlorobenzene		.0227	0.0168	74	0.0166	73.1	1.4	65 - 135	30	
1,3-Dichloropropane		.0227	0.020	88.1	0.0183	80.6	8.9	65 - 135	30	
1,4-Dichlorobenzene		.0227	0.0163	71.8	0.0161	70.9	.7	65 - 135	30	
1-Chlorohexane		.0227	0.023	101.3	0.0225	99.1	2	65 - 135	30	
2,2-Dichloropropane		.0227	0.0249	109.7	0.0243	107	2.3	65 - 135	30	
2-Chlorotoluene		.0227	0.0192	84.6	0.0191	84.1	.6	63 - 135	30	
4-Chlorotoluene		.0227	0.0195	85.9	0.019	83.7	2.9	64 - 135	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration HPMS6 24-JUN-1999

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Benzene		.0227	0.0235	103.5	0.0223	98.2	5.5	65 - 135	30	
Bromobenzene		.0227	0.0183	80.6	0.0176	77.5	3.8	65 - 135	30	
Bromochloromethane		.0227	0.0235	103.5	0.0216	95.2	8.6	63 - 135	30	
Bromodichloromethane		.0227	0.0216	95.2	0.0203	89.4	6	65 - 135	30	
Bromoform		.0227	0.0126	55.5	0.012	52.9	4.6	65 - 135	30	*
Bromomethane		.0227	0.0348	153.3	0.032	141	8.2	62 - 135	30	*
Carbon tetrachloride		.0227	0.0244	107.5	0.0245	107.9	.5	52 - 135	30	
Chlorobenzene		.0227	0.0211	93	0.0202	89	4.4	65 - 135	30	
Chloroethane		.0227	0.0277	122	0.0264	116.3	5	55 - 135	30	
Chloroform		.0227	0.0248	109.3	0.0233	102.6	6.1	64 - 135	30	
Chloromethane		.0227	0.0226	99.6	0.021	92.5	7.3	65 - 135	30	
Dibromochloromethane		.0227	0.0182	80.2	0.0175	77.1	3.8	63 - 135	30	
Dibromomethane		.0227	0.022	96.9	0.0202	89	8.6	59 - 137	30	
Dichlorodifluoromethane		.0227	0.0305	134.4	0.0291	128.2	4.6	65 - 135	30	
Ethylbenzene	0.00095	.0227	0.0273	116.1	0.0276	117.4	1.2	65 - 135	30	
Hexachlorobutadiene		.0227	0.0177	78	0.0172	75.8	3.3	65 - 135	30	
Isopropylbenzene		.0227	0.0224	98.7	0.0219	96.5	2.1	65 - 135	30	
Methylene chloride		.0227	0.0234	103.1	0.0219	96.5	6.5	65 - 135	30	
Naphthalene		.0227	0.0126	55.5	0.0132	58.1	4.4	65 - 135	30	*
Styrene		.0227	0.0202	89	0.0195	85.9	3.4	65 - 135	30	
Tetrachloroethene		.0227	0.024	105.7	0.0234	103.1	2.4	61 - 135	30	
Toluene	0.00092	.0227	0.0236	99.9	0.0224	94.6	5.4	64 - 135	30	
Trichloroethene		.0227	0.0256	112.8	0.0244	107.5	4.5	61 - 135	30	
Trichlorofluoromethane		.0227	0.018	79.3	0.0168	74	6.5	57 - 135	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8260B AAB # : WG60129

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration HPMS6 24-JUN-1999

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Vinyl chloride		.0227	0.032	141	0.0306	134.8	4.7	36 - 144	30	
cis-1,2-Dichloroethene		.0227	0.0235	103.5	0.0219	96.5	7	65 - 135	30	
cis-1,3-Dichloropropene		.0227	0.0208	91.6	0.0195	85.9	6.2	64 - 135	30	
m-,p-Xylene	0.00061	.0455	0.0469	101.7	0.0457	99.1	2.7	65 - 135	30	
n-Butylbenzene		.0227	0.0195	85.9	0.0192	84.6	1.8	65 - 135	30	
n-Propylbenzene		.0227	0.0215	94.7	0.0211	93	1.6	65 - 135	30	
o-Xylene	0.00017	.0227	0.0219	95.7	0.0214	93.5	2.6	65 - 135	30	
p-Isopropyltoluene		.0227	0.0194	85.5	0.0194	85.5	0	65 - 135	30	
sec-Butylbenzene		.0227	0.0206	90.7	0.0206	90.7	0	65 - 135	30	
tert-Butylbenzene		.0227	0.0214	94.3	0.0209	92.1	2.2	65 - 135	30	
trans-1,2-Dichloroethene		.0227	0.0273	120.3	0.026	114.5	4.7	65 - 135	30	
trans-1,3-Dichloropropene		.0227	0.0186	81.9	0.0172	75.8	8.3	56 - 135	30	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

507 753

Analytical Method: 8260B

AAB#: WG60129

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SFU0300BA	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SUN0502BB	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0410BA	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0506BA	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0610BA	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0606BA	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0706BB	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0810BA	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU0910BB	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU1010BB	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU1110BB	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU1110BC/DUP	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU1110BS/MS	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	
S13SFU1110BD/MSD	18-Jun-99	21-Jun-99	N/A	14	N/A	27-Jun-99	14	9	

Comments:

Forms by ChemSW(707)864-0845;v1.0:12/1/97

507 754

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG59939
Analysis Date 6-24-99

Analyst CMS
Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: 6/25/99 CMS

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (If applicable)	SOLN #	IS/SS SOLN #	Analy Tim
6M14194	NA	1	WG59939-01 BFB 50 PPM STD	5ml	NA	✓	1	NA	S-46-7	NA	073
6M14195		2	-02 50 PPB STD M8260	5g/5ml		✓ (SOIL)			VSTD0624*	S-46-43 S-46-44	—
6M14196		3	-03 20			✓					—
6M14197		4	-04 10			✓					—
6M14198		5	-05 5			✓					—
6M14199		6	-06 2			✓					—
6M14200		7	-07 1			✓					—
6M14201		8	-08 100			✓					—
6M14202		9	-09 200			✓					—
6M14203		10	SYSTEM BLANK			✓			NA		—
6M14204		11	WG59939-10 20 PPB ALT SRC STD			✓			QC0624*		135

*VSTD0624 = Calibration STD's S-46-41/S-46-42/S-47-9/S-47-10/S-46-21/S-46-46

*QC0624 = Alternate Source/QC STD's S-46-40/S-46-29/S-46-30/S-47-7

Reviewed By: ____

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Sa[illegible]l carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP R 0 - (CLP 3/90)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 755

Workgroup #(s) WG60129
Analysis Date 6-27-99

Analyst CMS
Instrument HPMS6

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: 6/28/99 CMS

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analy Time
6M14273	NA	1	WG60129-01 BFB 50PPM STD	5ml	NA	✓	1	NA	S-47-17	NA	1357
6M14274		2	-02 50PPB STD MB260	5g/5ml		✓			VSTD0624	S-48-43 S-46-44	—
6M14275		3	-03 VBLK0627 SOIL BLANK			✓			NA		—
6M14276		4	-04 20PPB VOA QC SPIKE			✓			QC0624		—
6M14277		5	L9906463-02 VERSAR MB260			✓			NA		—
6M14278		6	L9906513-14 FP&M 826AF98			✓			〃		—
6M14279		7	-15			✓					—
6M14280		8	-16MS			✓			QC0624		—
6M14281		9	-17 MSD			✓			〃		—
6M14282		10	-04			✓			NA		—
6M14283	〃	11	-05	〃	〃	✓	〃	〃	〃	〃	—

Calibration STD's VSTD0624 Alternate Source/QC STD's QC0624 Reviewed By: ____

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 756

Workgroup #(s) WG60129
Analysis Date 6-27-99

Analyst CMS
Instrument HPMS6

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
6M14284	NA	12	L9906513-06 FP&M 826AP98	5g/5ml	NA	✓	1	NA	NA	5-46-43 6-46-44	—
6M14285		13	-07			✓					—
6M14286		14	-08			✓					—
6M14287		15	-09	1g/5ml	5	✓					—
6M14288		16	-10	5g/5ml	NA	✓					—
6M14289		17	-11			✓					—
6M14290		18	-12			✓					—
6M14291		19	-13			✓					—
6M14292		20	L9906512-01 FP&M 826AP98			✓					0131
6M14293		21	-02								0205
6M14294		22	-03			MT: RR					—
6M14295	—	—	BAKEOUT	—	—	—	—	—	—	—	—

6/28/99 CMS

Calibration STD's VSTD0624 Alternate Source/QC STD's QC0624 Reviewed By: _____

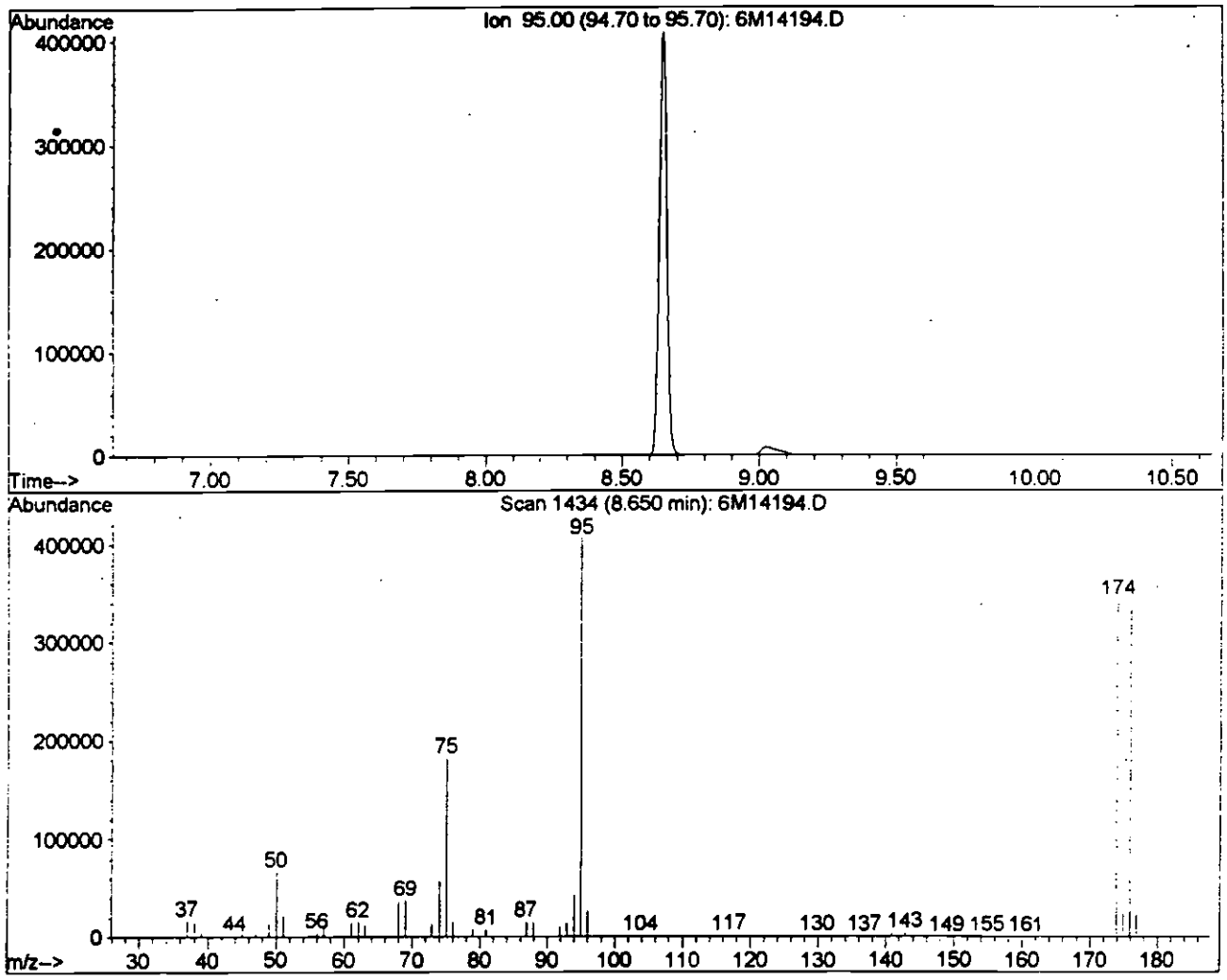
Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interferenee with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

Data File : C:\HPCHEM\1\DATA\062499\6M14194.D Vial: 1
Acq On : 24 Jun 1999 7:30 Operator: CMS
Sample : WG59939-01 BFB 50 PPM STD S-46-7 10UL/50 Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99

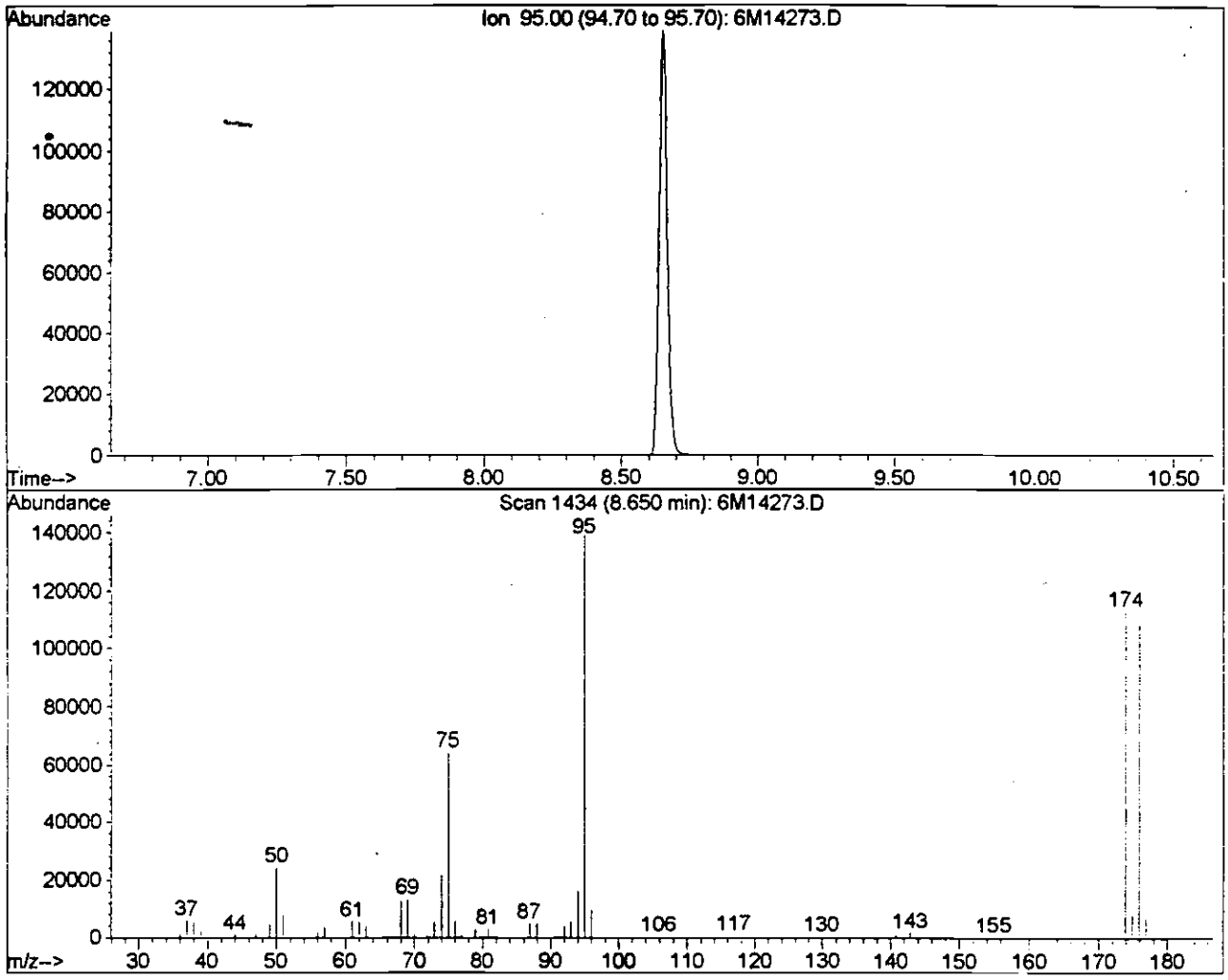


Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	67680	PASS
75	95	30	60	44.4	181376	PASS
95	95	100	100	100.0	408448	PASS
96	95	5	9	6.5	26616	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.0	343232	PASS
175	174	5	9	7.5	25584	PASS
176	174	95	101	98.3	337536	PASS
177	176	5	9	6.7	22600	PASS

BFB

Data File : C:\HPCHEM\1\DATA\062799\6M14273.D Vial: 1
Acq On : 27 Jun 1999 13:53 Operator: CMS
Sample : WG60129-01 BFB 50 PPM STD S-47-14 10UL/5 Inst : HPMS_6
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 06/24/99



Spectrum Information: Scan 1434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	24256	PASS
75	95	30	60	46.3	64360	PASS
95	95	100	100	100.0	139136	PASS
96	95	5	9	6.9	9649	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.2	112912	PASS
175	174	5	9	7.2	8165	PASS
176	174	95	101	95.8	108224	PASS
177	176	5	9	6.5	7039	PASS

6M14273.D 8260BSL.M Sun Jun 27 14:08:34 1999 HPMS_6

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : **8260B** AAB # : **WG60248**

Lab Name : **Kemron Environmental Services** Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB** Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SUN0100BF	L9906513-01
TRIP BLANK 1	L9906513-02
S13SUN0100BE	L9906513-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe Name: **Dennis S. Tepe**

Date: **13-JUL-99** Title: **Laboratory Manager**

Calibration Table Report
Method: AF98WT.M
Title: Method 8260B Water Analysis 06/03/99
Last Calibration: Thu Jun 03 16:53:19 1999

Ave, %RSD= 10.698

507 760

Calibration Files

	Compound	0.5 9M3169.9	1 M3168	200 9M3162	5 M3167	10 9M3166	100 M3163	20 9M3165	50 M3164.D	Avg	%RSD
I	Fluorobenzene	ISTD									
T	Dichlorodifluoromethane	0.270	0.248	0.270	0.252	0.250	0.266	0.268	0.268	0.262	3.7
P	Chloromethane	0.292	0.244	0.230	0.220	0.222	0.232	0.232	0.225	0.237	9.9
C	Vinyl Chloride	0.189	0.168	0.112	0.151	0.124	0.109	0.127	0.123	0.138	20.8
T	Bromomethane	0.130	0.112	0.118	0.101	0.105	0.109	0.109	0.108	0.111	8.1
T	Chloroethane	0.140	0.133	0.141	0.126	0.126	0.139	0.132	0.136	0.134	4.3
T	Trichlorofluoromethane	0.503	0.458	0.500	0.460	0.451	0.464	0.478	0.469	0.473	4.1
T	Isoprene	0.266	0.289	0.333	0.316	0.329	0.341	0.347	0.348	0.321	9.1
T	Acrolein			0.004	0.003	0.003	0.004	0.004	0.004	0.004	13.2
T	1,1,2-Trichloro-1,2,2-Trifluorometha	0.275	0.251	0.259	0.252	0.248	0.258	0.264	0.262	0.259	3.3
T	Acetone			0.043	0.044	0.042	0.041	0.044	0.047	0.043	4.7
C	1,1-Dichloroethene	0.205	0.221	0.237	0.227	0.231	0.237	0.233	0.241	0.229	5.1
T	Dimethyl Sulfide	0.214	0.238	0.281	0.258	0.267	0.275	0.281	0.280	0.262	9.3
T	Iodomethane		0.038	0.171	0.050	0.059	0.147	0.078	0.103	0.092	54.8
T	Methylene Chloride	0.256	0.270	0.244	0.244	0.239	0.245	0.240	0.247	0.248	4.1
T	Carbon Disulfide		0.685	0.710	0.703	0.716	0.723	0.757	0.746	0.720	3.4
T	Acrylonitrile		0.042	0.059	0.053	0.051	0.057	0.059	0.060	0.054	11.6
T	Methyl Tert Butyl Ether	0.469	0.499	0.536	0.518	0.517	0.543	0.569	0.577	0.529	6.8
T	trans-1,2-Dichloroethene	0.209	0.245	0.246	0.242	0.246	0.249	0.250	0.256	0.243	5.8
T	n-Hexane	0.323	0.377	0.331	0.336	0.346	0.346	0.362	0.359	0.347	5.1
T	Vinyl Acetate			0.234	0.209	0.225	0.219	0.241	0.247	0.229	6.1
P	1,1-Dichloroethane	0.394	0.444	0.439	0.448	0.449	0.449	0.455	0.462	0.443	4.7
T	2-Butanone			0.059	0.051	0.050	0.056	0.057	0.060	0.055	7.4
T	2,2-Dichloropropane	0.300	0.348	0.414	0.373	0.387	0.410	0.397	0.420	0.381	10.6
T	cis-1,2-Dichloroethene	0.232	0.264	0.274	0.277	0.281	0.280	0.284	0.289	0.273	6.6
C	Chloroform	0.407	0.461	0.437	0.445	0.448	0.448	0.452	0.461	0.445	3.9
T	Bromochloromethane	0.111	0.127	0.127	0.129	0.128	0.129	0.131	0.134	0.127	5.4
S	Dibromofluoromethane		0.258	0.257	0.250	0.251	0.261	0.268	0.268	0.259	2.8
T	1,1,1-Trichloroethane	0.353	0.397	0.413	0.406	0.411	0.420	0.421	0.431	0.406	5.9
T	Cyclohexane	0.326	0.374	0.390	0.400	0.410	0.412	0.436	0.428	0.397	8.8
T	1,1-Dichloropropene	0.265	0.305	0.327	0.323	0.326	0.326	0.332	0.337	0.318	7.4
T	Carbon Tetrachloride	0.310	0.353	0.402	0.363	0.371	0.400	0.388	0.406	0.374	8.6
S	1,2-Dichloroethane-d4		0.267	0.244	0.252	0.247	0.249	0.263	0.259	0.254	3.5
T	1,2-Dichloroethane	0.311	0.345	0.322	0.335	0.331	0.327	0.336	0.344	0.331	3.5
T	Benzene	0.864	1.025	0.838	1.012	1.019	0.949	1.023	1.022	0.969	8.0
T	Trichloroethene	0.278	0.306	0.301	0.301	0.304	0.304	0.312	0.317	0.303	3.8
C	1,2-Dichloropropane	0.207	0.241	0.237	0.240	0.243	0.242	0.246	0.252	0.238	5.7
T	Bromodichloromethane	0.257	0.293	0.332	0.311	0.316	0.335	0.326	0.342	0.314	8.8
T	Dibromomethane	0.104	0.123	0.122	0.122	0.122	0.123	0.125	0.128	0.121	5.9
T	2-Chloroethyl Vinyl Ether		0.071	0.094	0.084	0.091	0.088	0.090	0.088	0.087	8.4
T	4-Methyl-2-Pentanone	0.035	0.039	0.059	0.051	0.051	0.057	0.058	0.060	0.051	18.6
T	cis-1,3-Dichloropropene	0.256	0.316	0.372	0.353	0.367	0.375	0.381	0.395	0.352	12.8
T	Dimethyl Disulfide		0.082	0.221	0.128	0.158	0.214	0.193	0.215	0.173	30.5
I	Chlorobenzene-d5	ISTD									
S	Toluene-d8		1.170	0.916	1.138	1.154	1.072	1.204	1.166	1.117	8.7
C	Toluene	1.151	1.388	1.018	1.395	1.412	1.244	1.397	1.379	1.298	11.3
T	Ethyl Methacrylate		0.203	0.281	0.255	0.267	0.282	0.295	0.304	0.269	12.5
T	trans-1,3-Dichloropropene	0.293	0.356	0.401	0.398	0.410	0.410	0.426	0.443	0.392	12.0
T	1,1,2-Trichloroethane	0.194	0.218	0.210	0.219	0.217	0.213	0.222	0.228	0.215	4.6
T	2-Hexanone			0.112	0.093	0.097	0.107	0.110	0.115	0.106	8.3
T	1,3-Dichloropropane	0.331	0.388	0.362	0.387	0.385	0.373	0.393	0.402	0.378	5.9
T	Tetrachloroethene	0.267	0.291	0.273	0.286	0.285	0.281	0.287	0.292	0.283	3.1

T	1,2-Dibromoethane	0.180	0.212	0.223	0.224	0.223	0.225	0.233	0.242	0.220	8.4
T	1-Chlorohexane	0.296	0.378	0.416	0.418	0.436	0.440	0.463	0.459	0.413	13.2
P	Chlorobenzene	0.921	1.053	0.785	1.018	1.030	0.922	1.018	1.007	0.969	9.2
T	1,1,1,2-Tetrachloroethane	0.288	0.334	0.295	0.344	0.353	0.329	0.358	0.359	0.332	8.3
C	Ethylbenzene	0.466	0.541	0.446	0.539	0.541	0.500	0.538	0.537	0.514	7.5
T	m-,p-Xylene	0.567	0.670	0.466	0.677	0.679	0.582	0.672	0.655	0.621	12.4
[redacted]	-Xylene	0.512	0.621	0.579	0.651	0.661	0.636	0.669	0.671	0.625	8.8
[redacted]	tyrene	0.800	1.017	0.880	1.123	1.148	1.064	1.166	1.165	1.046	13.2
P	Bromoform	0.100	0.119	0.180	0.140	0.147	0.175	0.163	0.179	0.150	19.6
T	Isopropylbenzene	1.201	1.584	1.145	1.690	1.714	1.496	1.726	1.694	1.531	15.3
I	1,4-Dichlorobenzene-d4	ISTD									
P	1,1,2,2-Tetrachloroethane	0.364	0.397	0.399	0.414	0.418	0.411	0.429	0.443	0.409	5.8
S	p-Bromofluorobenzene		0.860	0.742	0.839	0.867	0.826	0.890	0.866	0.842	5.7
T	1,2,3-Trichloropropane	0.135	0.158	0.149	0.154	0.152	0.150	0.156	0.160	0.152	5.1
T	trans-1,4-Dichloro-2-Butene	0.093	0.105	0.142	0.119	0.128	0.140	0.140	0.145	0.127	15.1
T	n-Propylbenzene	2.515	3.230	1.979	3.406	3.478	2.790	3.405	3.249	3.007	17.8
T	Bromobenzene	0.681	0.802	0.711	0.808	0.822	0.770	0.810	0.806	0.776	6.7
T	1,3,5-Trimethylbenzene	1.940	2.522	1.787	2.646	2.729	2.341	2.692	2.599	2.407	14.9
T	2-Chlorotoluene	1.939	2.260	1.588	2.191	2.286	1.986	2.222	2.099	2.071	11.2
T	4-Chlorotoluene	1.787	2.194	1.492	2.262	2.260	1.913	2.188	2.085	2.023	13.5
T	a-Methylstyrene	0.899	1.158	1.245	1.393	1.503	1.425	1.550	1.512	1.336	16.7
T	tert-Butylbenzene	1.892	2.247	1.595	2.240	2.258	2.009	2.241	2.158	2.080	11.4
T	1,2,4-Trimethylbenzene	2.331	2.760	1.783	2.668	2.757	2.360	2.702	2.632	2.499	13.4
T	sec-Butylbenzene	2.372	3.159	2.023	3.189	3.273	2.759	3.264	3.133	2.897	16.2
T	p-Isopropyltoluene	1.880	2.635	1.879	2.785	2.879	2.531	2.911	2.831	2.541	16.8
T	1,3-Dichlorobenzene	1.388	1.635	1.279	1.585	1.621	1.481	1.595	1.575	1.520	8.4
T	1,4-Dichlorobenzene	1.530	1.708	1.271	1.625	1.644	1.489	1.618	1.596	1.560	8.6
T	n-Butylbenzene	1.368	1.860	1.594	1.959	2.086	2.009	2.159	2.156	1.899	14.9
T	1,2-Dichlorobenzene	1.226	1.424	1.174	1.425	1.437	1.334	1.428	1.418	1.358	7.7
T	1,2-Dibromo-3-Chloropropane	0.054	0.057	0.095	0.075	0.079	0.095	0.089	0.099	0.080	21.7
T	1,2,4-Trichlorobenzene	0.461	0.666	0.766	0.760	0.812	0.862	0.867	0.894	0.761	18.6
T	Hexachlorobutadiene	0.561	0.513	0.306	0.359	0.346	0.325	0.340	0.331	0.385	24.9
[redacted]	Naphthalene	0.516	0.838	1.187	1.229	1.339	1.345	1.448	1.477	1.172	28.3
[redacted]	2,3-Trichlorobenzene	0.318	0.493	0.624	0.609	0.648	0.69	0.711	0.728	0.6027	22.678

Thu Jun 03 16:54:37 1999

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ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8260B
AAB#: WG60248
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS9
Initial Calibration ID: HPMS9 3-JUN-99
2nd Source ID: ALT HPMS9 3-JUN-1999

Analyte	% D	Q
Chloromethane *	-11.10	
1,1-DCA *	7.36	
Bromoform *	19.00	
Chlorobenzene *	5.67	
1,1,2,2-TCA *	8.34	
1,1-DCE #	6.05	
Chloroform #	10.78	
1,2-DCP #	6.53	
Toluene #	8.19	
Ethylbenzene #	7.35	
Vinyl chloride #	0.83	
1,1,1,2-Tetrachloroethane	11.33	
1,1,1-TCA	14.36	
1,1,2-TCA	8.55	
1,1-Dichloropropene	23.80	
1,2,3-Trichlorobenzene	19.77	
1,2,3-Trichloropropane	10.36	
1,2,4-Trichlorobenzene	15.54	
1,2,4-Trimethylbenzene	9.03	
1,2-DCA	8.86	
1,2-DCB	7.57	
1,2-Dibromo-3-chloropropane	23.97	
1,2-EDB	12.85	
1,3,5-Trimethylbenzene	11.47	
1,3-DCB	4.83	
1,3-Dichloropropane	8.72	
1,4-DCB	3.23	
1-Chlorohexane	9.69	
2,2-Dichloropropane	16.53	
2-Chlorotoluene	8.17	
4-Chlorotoluene	5.79	
Benzene	7.57	
Bromobenzene	5.48	
Bromochloromethane	11.84	
Bromodichloromethane	15.24	
Bromomethane	13.95	
Carbon Tetrachloride	18.05	
Chloroethane	3.77	
Cis-1,2-DCE	6.64	
Cis-1,3-Dichloropropene	18.66	
Dibromochloromethane	20.27	
Dibromomethane	11.68	
Dichlorodifluoromethane	5.83	
Hexachlorobutadiene	-13.97	
Isopropylbenzene	12.30	
m+p-Xylene	7.57	
Methylene chloride	4.20	
n-Butylbenzene	14.13	
n-Propylbenzene	10.97	
Naphthalene	25.19	*
o-Xylene	8.96	
Sec-Butylbenzene	7.15	
Styrene	13.66	
TCE	9.70	
Tert-butylbenzene	13.44	
Tetrachloroethene	6.73	
Trans-1,2-DCE	14.21	
Trans-1,3-Dichloropropene	12.65	
Trichlorofluoromethane	6.45	

Comments:

Data File : C:\HPCHEM\1\DATA\062999\9M3735.D
Acq On : 29 Jun 1999 10:40 Operator: JLH
Sample : WG60248-02 50UG/L STD 8260B Inst : HPMS_9
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99
Last Update : Thu Jun 17 08:11:55 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	73	0.00
2	T	Dichlorodifluoromethane	50.000	46.754	6.5	66	0.01
3	P	Chloromethane	50.000	45.957	8.1	70	0.01
4	C	Vinyl Chloride	50.000	49.078	1.8	80	0.02
5	T	Bromomethane	50.000	47.674	4.7	72	0.02
6	T	Chloroethane	50.000	49.087	1.8	71	0.01
7	T	Trichlorofluoromethane	50.000	51.712	-3.4	76	0.01
8	T	Isoprene	50.000	53.003	-6.0	71	0.01
9	T	Acrolein	100.000	274.957	-175.0#	173	0.00
10	t	1,1,2-Trichloro-1,2,2-Trifl	50.000	49.400	1.2	71	0.01
11	T	Acetone	50.000	54.015	-8.0	73	0.00
12	C	1,1-Dichloroethene	50.000	41.069	17.9	57	0.01
13	T	Dimethyl Sulfide	50.000	52.616	-5.2	72	0.00
14	T	Iodomethane	50.000	86.985	-74.0#	113	0.00
15	T	Methylene Chloride	50.000	43.122	13.8	63	0.01
16	T	Carbon Disulfide	50.000	52.235	-4.5	73	0.01
17	T	Acrylonitrile	50.000	54.970	-9.9	73	0.01
18	T	Methyl Tert Butyl Ether	50.000	53.156	-6.3	71	0.01
19	T	trans-1,2-Dichloroethene	50.000	46.075	7.8	64	0.01
20	T	n-Hexane	50.000	49.613	0.8	70	0.01
21	T	Vinyl Acetate	50.000	61.182	-22.4	83	0.01
22	P	1,1-Dichloroethane	50.000	49.028	1.9	68	0.00
23	T	2-Butanone	50.000	52.017	-4.0	70	0.00
24	T	2,2-Dichloropropane	50.000	52.416	-4.8	69	0.00
25	T	cis-1,2-Dichloroethene	50.000	49.322	1.4	68	0.00
26	C	Chloroform	50.000	51.944	-3.9	73	0.00
27	T	Bromochloromethane	50.000	49.646	0.7	68	0.00
28	S	Dibromofluoromethane	50.000	25.610	48.8#	36	0.00
29	T	1,1,1-Trichloroethane	50.000	53.396	-6.8	73	0.00
30	T	Cyclohexane	50.000	53.960	-7.9	73	0.00
31	T	1,1-Dichloropropene	50.000	49.871	0.3	68	0.00
32	T	Carbon Tetrachloride	50.000	56.550	-13.1	76	0.00
33	S	1,2-Dichloroethane-d4	50.000	25.816	48.4#	37	0.01
34	T	1,2-Dichloroethane	50.000	52.450	-4.9	73	0.00
35	T	Benzene	50.000	49.103	1.8	68	0.00
36	T	Trichloroethene	50.000	49.887	0.2	69	0.01
37	C	1,2-Dichloropropane	50.000	49.248	1.5	68	0.00
38	T	Bromodichloromethane	50.000	55.361	-10.7	74	0.01
39	T	Dibromomethane	50.000	51.410	-2.8	71	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	55.898	-11.8	80	0.00
41	T	4-Methyl-2-Pentanone	50.000	56.651	-13.3	70	0.00

(#) = Out of Range
9M3735.D AF98WT.M Tue Jun 29 12:02:29 1999 HPMS_9 Page 1

Data File : C:\HPCHEM\1\DATA\062999\9M3735.D
Acq On : 29 Jun 1999 10:40 Operator: JLH
Sample : WG60248-02 50UG/L STD 8260B Inst : HPMS_9
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99
Last Update : Thu Jun 17 08:11:55 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	55.042	-10.1	71	0.01
43	T	Dimethyl Disulfide	50.000	66.391	-32.8#	78	0.00
44	I	Chlorobenzene-d5	25.000	25.000	0.0	75	0.00
45	S	Toluene-d8	50.000	25.818	48.4#	37	0.01
46	C	Toluene	50.000	50.885	-1.8	72	0.01
47	T	Ethyl Methacrylate	50.000	54.583	-9.2	73	0.00
48	T	trans-1,3-Dichloropropene	50.000	55.330	-10.7	73	0.00
49	T	1,1,2-Trichloroethane	50.000	50.913	-1.8	72	0.00
50	T	2-Hexanone	50.000	53.943	-7.9	74	0.01
51	T	1,3-Dichloropropane	50.000	51.043	-2.1	72	0.00
52	T	Tetrachloroethene	50.000	50.275	-0.5	73	0.00
53	T	Dibromochloromethane	50.000	58.062	-16.1	76	0.00
54	T	1,2-Dibromoethane	50.000	51.925	-3.8	71	0.00
55	T	1-Chlorohexane	50.000	54.947	-9.9	74	0.00
56	P	Chlorobenzene	50.000	51.158	-2.3	74	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	55.519	-11.0	77	0.00
58	C	Ethylbenzene	50.000	51.276	-2.6	74	0.00
59	T	m-,p-Xylene	100.000	104.803	-4.8	75	0.00
60	T	o-Xylene	50.000	52.711	-5.4	74	0.00
61	T	Styrene	50.000	54.701	-9.4	74	0.00
62	P	Bromoform	50.000	60.238	-20.5	76	0.00
63	T	Isopropylbenzene	50.000	55.521	-11.0	75	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	76	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	50.571	-1.1	71	0.00
66	S	p-Bromofluorobenzene	50.000	25.887	48.2#	38	0.00
67	T	1,2,3-Trichloropropane	50.000	51.271	-2.5	74	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	56.006	-12.0	75	0.00
69	T	n-Propylbenzene	50.000	52.726	-5.5	74	0.00
70	T	Bromobenzene	50.000	50.605	-1.2	74	0.01
71	T	1,3,5-Trimethylbenzene	50.000	52.841	-5.7	75	0.00
72	T	2-Chlorotoluene	50.000	49.356	1.3	74	0.00
73	T	4-Chlorotoluene	50.000	51.221	-2.4	76	0.00
74	T	a-Methylstyrene	50.000	57.147	-14.3	77	0.00
75	T	tert-Butylbenzene	50.000	50.245	-0.5	74	0.01
76	T	1,2,4-Trimethylbenzene	50.000	51.639	-3.3	75	0.01
77	T	sec-Butylbenzene	50.000	51.005	-2.0	72	0.00
78	T	p-Isopropyltoluene	50.000	52.059	-4.1	71	0.00
79	T	1,3-Dichlorobenzene	50.000	50.650	-1.3	75	0.00
80	T	1,4-Dichlorobenzene	50.000	49.794	0.4	74	0.00

(#) = Out of Range

Acq On : 29 Jun 1999 10:40 Operator: JLH
Sample : WG60248-02 50UG/L STD 8260B Inst : HPMS_9
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99
Last Update : Thu Jun 17 08:11:55 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	50.002	-0.0	67	0.00
82	T	1,2-Dichlorobenzene	50.000	50.196	-0.4	73	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	55.847	-11.7	69	0.00
84	T	1,2,4-Trichlorobenzene	50.000	48.611	2.8	63	0.00
85	T	Hexachlorobutadiene	50.000	33.351	33.3#	59	0.00
86	T	Naphthalene	50.000	52.971	-5.9	64	0.00
87	T	1,2,3-Trichlorobenzene	50.000	47.082	5.8	59	0.00

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60248

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG60248-03

Initial Calibration HPMS9 03-JUN-1999

Analyte	Method Blank	RL	Q
1,1,1,2-Tetrachloroethane	0.61	5.0	
1,1,1-Trichloroethane	0.30	5.0	
1,1,2,2-Tetrachloroethane	0.67	5.0	
1,1,2-Trichloroethane	0.45	5.0	
1,1-Dichloroethane	0.23	5.0	
1,1-Dichloroethene	0.31	5.0	
1,1-Dichloropropene	0.29	5.0	
1,2,3-Trichlorobenzene	0.31	5.0	
1,2,3-Trichloropropane	0.92	5.0	
1,2,4-Trichlorobenzene	0.24	5.0	
1,2,4-Trimethylbenzene	0.27	5.0	
1,2-Dibromo-3-chloropropane	1.7	5.0	
1,2-Dibromoethane	0.33	5.0	
1,2-Dichlorobenzene	0.30	5.0	
1,2-Dichloroethane	0.17	5.0	
1,2-Dichloropropane	0.20	5.0	
1,3,5-Trimethylbenzene	0.22	5.0	
1,3-Dichlorobenzene	0.32	5.0	
1,3-Dichloropropane	0.33	5.0	
1,4-Dichlorobenzene	0.27	5.0	
2,2-Dichloropropane	0.26	5.0	
2-Chlorotoluene	0.38	5.0	
4-Chlorotoluene	0.30	5.0	
Benzene	0.20	5.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

507 767

Analytical Method : 8260B

AAB # : WG60248

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG60248-03

Initial Calibration HPMS9 03-JUN-1999

Analyte	Method Blank	RL	Q
Bromobenzene	0.37	5.0	
Bromochloromethane	0.21	5.0	
Bromodichloromethane	0.24	5.0	
Bromoform	0.53	5.0	
Bromomethane	0.68	10	
Carbon tetrachloride	0.30	5.0	
Chlorobenzene	0.28	5.0	
Chlorodibromomethane	0.45	5.0	
Chloroethane	0.44	10	
Chloroform	0.21	5.0	
Chloromethane	0.52	10	
Dibromomethane	0.25	5.0	
Dichlorodifluoromethane	0.26	10	
Ethylbenzene	0.27	5.0	
Hexachlorobutadiene	0.560	5.0	
Isopropylbenzene	0.22	5.0	
Methylene chloride	0.74	5.0	
Naphthalene	0.51	10	
Styrene	0.28	5.0	
Tetrachloroethene	0.28	5.0	
Toluene	0.21	5.0	
Trichloroethene	0.30	5.0	
Trichlorofluoromethane	0.32	10	
Vinyl chloride	0.30	10	

Comments:

507 768

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8260B

AAB # : WG60248

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG60248-03

Initial Calibration HPMS9 03-JUN-1999

Analyte	Method Blank	RL	Q
cis-1,2-Dichloroethene	0.24	5.0	
cis-1,3-Dichloropropene	0.15	5.0	
n-Butylbenzene	0.33	5.0	
n-Propylbenzene	0.19	5.0	
o-Xylene	0.22	5.0	
p-Isopropyltoluene	0.20	5.0	
sec-Butylbenzene	0.23	5.0	
tert-Butylbenzene	0.27	5.0	
trans-1,2-Dichloroethene	0.22	5.0	
trans-1,3-Dichloropropene	0.33	5.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60248

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60248-04

Units: ug/L

Initial Calibration HPMS9 03-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,1,1,2-Tetrachloroethane	20	24.0	120	72 - 125	
1,1,1-Trichloroethane	20	24.3	121.5	75 - 125	
1,1,2,2-Tetrachloroethane	20	22.0	110	74 - 125	
1,1,2-Trichloroethane	20	21.9	109.5	75 - 127	
1,1-Dichloroethane	20	22.1	110.5	72 - 125	
1,1-Dichloroethene	20	21.0	105	75 - 125	
1,1-Dichloropropene	20	24.6	123	75 - 125	
1,2,3-Trichlorobenzene	20	20.1	100.5	75 - 137	
1,2,3-Trichloropropane	20	22.8	114	75 - 125	
1,2,4-Trichlorobenzene	20	20.2	101	75 - 135	
1,2,4-Trimethylbenzene	20	22.5	112.5	75 - 125	
1,2-Dibromo-3-chloropropane	20	23.4	117	59 - 125	
1,2-Dibromoethane	20	21.9	109.5	75 - 125	
1,2-Dichlorobenzene	20	22.4	112	75 - 125	
1,2-Dichloroethane	20	23.2	116	68 - 127	
1,2-Dichloropropane	20	21.0	105	70 - 125	
1,3,5-Trimethylbenzene	20	23.3	116.5	72 - 112	*
1,3-Dichlorobenzene	20	22.0	110	75 - 125	
1,3-Dichloropropane	20	21.6	108	75 - 125	
1,4-Dichlorobenzene	20	21.7	108.5	75 - 125	
2,2-Dichloropropane	20	23.4	117	75 - 125	
2-Chlorotoluene	20	22.7	113.5	73 - 125	
4-Chlorotoluene	20	22.5	112.5	74 - 125	
Benzene	20	22.0	110	75 - 125	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8260B

AAB # : WG60248

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60248-04

Units: ug/L

Initial Calibration HPMS9 03-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Bromobenzene	20	21.8	109	75 - 125	
Bromochloromethane	20	22.3	111.5	73 - 125	
Bromodichloromethane	20	23.8	119	75 - 125	
Bromoform	20	23.9	119.5	75 - 125	
Bromomethane	20	25.1	125.5	72 - 125	*
Carbon tetrachloride	20	25.6	128	62 - 125	*
Chlorobenzene	20	22.1	110.5	75 - 125	
Chlorodibromomethane	20	24.3	121.5	73 - 125	
Chloroethane	20	20.9	104.5	65 - 125	
Chloroform	20	23.2	116	74 - 125	
Chloromethane	20	21.3	106.5	75 - 125	
Dibromomethane	20	22.7	113.5	69 - 127	
Dichlorodifluoromethane	20	27.6	138	75 - 125	*
Ethylbenzene	20	22.5	112.5	75 - 125	
Hexachlorobutadiene	20	14.2	71	75 - 125	*
Isopropylbenzene	20	23.7	118.5	75 - 125	
Methylene chloride	20	20.6	103	75 - 125	
Naphthalene	20	22.5	112.5	75 - 125	
Styrene	20	23.6	118	75 - 125	
Tetrachloroethene	20	21.4	107	71 - 125	
Toluene	20	22.3	111.5	74 - 125	
Trichloroethene	20	22.0	110	71 - 125	
Trichlorofluoromethane	20	23.5	117.5	67 - 125	
Vinyl chloride	20	23.2	116	46 - 134	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

507 771

Analytical Method : 8260B

AAB # : WG60248

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG60248-04

Units: ug/L

Initial Calibration HPMS9 03-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
cis-1,2-Dichloroethene	20	21.5	107.5	75 - 125	
cis-1,3-Dichloropropene	20	23.7	118.5	74 - 125	
n-Butylbenzene	20	20.9	104.5	75 - 125	
n-Propylbenzene	20	23.5	117.5	75 - 125	
o-Xylene	20	22.5	112.5	75 - 125	
p-Isopropyltoluene	20	21.3	106.5	75 - 125	
sec-Butylbenzene	20	21.7	108.5	75 - 125	
tert-Butylbenzene	20	23.1	115.5	75 - 125	
trans-1,2-Dichloroethene	20	22.6	113	75 - 125	
trans-1,3-Dichloropropene	20	22.5	112.5	66 - 125	

Comments:

507772

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8260B AAB#: WG60248

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0100BF	18-Jun-99	19-Jun-99	N/A	14	N/A	29-Jun-99	14	11	
TRIP BLANK 1	18-Jun-99	19-Jun-99	N/A	14	N/A	29-Jun-99	14	11	
S13SUN0100BE	18-Jun-99	19-Jun-99	N/A	14	N/A	29-Jun-99	14	11	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/9

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

507 773

Workgroup #(s) WG58737
Analysis Date 6/3/99

Analyst QH
Instrument HP0159

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	NA
replace septa	
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: SLF 6/4/99

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
9M3159	NA	1	WG58737-01 50ng BFB	5ml	1	RR	1	—	546-07	—	11:01
9M3160		2	02 50ppb std	10ml		1		—	VSTD0419	546-08 546-09	1
9M3161		3	01 50ppm BFB			✓		—	546-33	—	11:01
9M3162		4	02 200 PPB STD			✓		—	VSTD0603	546-08 546-09	—
9M3163		5	03 100			✓		—			—
9M3164		6	04 50			✓		—			—
9M3165		7	05 20			✓		—			—
9M3166		8	06 10			✓		—			—
9M3167		9	07 5			✓		—			—
9M3168		10	08 1			✓		—			—
9M3169		11	09 0.5			✓		—			—

Calibration STD's VSTD0603 = 5-46-23
Alternate Source/QC STD's LCS0603 = 5-46-01 5-4537 5-46-13
Reviewed By: _____

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

Volatile GC/MS Laboratory Maintenance / Runlog

507 774

Workgroup #(s) WG58737

Analysis Date 6/3/99

Analyst JLH

Instrument HPMS9

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
9M3170	NA	12	WG58737-10 50ppb Alt Source	10ml	1	/	1	—	LCS0603	34608 34609	—
9M3171	"	13	11 VBLK0603	"	"	/	"	—	—	"	—
9M3172	"	14	12 20ppb QC Spike	"	"	/	"	—	LCS0603	"	—
9M3173	<2	15	L9905626-25 826-AE98	"	"	—	"	—	—	"	—
9M3174	"	16	25MS	"	"	/	"	—	LCS0603	"	—
9M3175	"	17	25MSD	"	"	/	"	—	L	"	—
9M3176	"	18	26 "	"	"	/	"	—	—	"	—
9M3177	<2	19	L9906064-01 826-AE98	"	"	/	"	—	—	"	—
9M3178	"	20	02 "	"	"	/	"	—	—	"	21:26

SLS 6/4/99

Calibration STD's VST00603

Alternate Source/QC STD's LCS0603

Reviewed By: _____

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60248
Analysis Date 6/29/99

Analyst GW
Instrument HP5972

Daily Check	
helium >500 psi	✓
bake out column	✓
check disk space	✓
Preventative Maintenance	
replace septa	NA
replace liner	
clip column (___ cm)	
change helium	

Additional Maintenance

Problem:

Action Taken: GM 6/30/99

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
m3734	NA	1	WG60248-01 50ng BFB	5ml	1	✓	1	NA	S47-14	NA	1008
35		2	02 50ug/L Std	10ml		✓			S47-12	S46-38/S46-39	
36		3	03 VBLK0629			✓			NA		
37		4	04 20ug/L LCS			✓			S47-13		
38		5	L4906430-07 B6-AF98			✓			NA		
39		6	L4906398-01 B6-Cyte-1		10	✓					
40		7	L4906399-01			✓					
41		8	L4906427-11 B2600			✓					
42		9	11MS			✓			S47-11		
43		10	11MSD			✓					
44		11	L4906681-01 B26-TCL		1	✓			NA		1532

Calibration STD's NA
Comments:

Alternate Source/QC STD's NA

Reviewed By: 7/11/99

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References
1 MSV01 Revision 0 - (8260B)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

507.776

KEMRON ENVIRONMENTAL SERVICES
Volatile GC/MS Laboratory Maintenance / Runlog

Workgroup #(s) WG60248
Analysis Date 6/29/99

Analyst GH
Instrument HPMS7

Filename	pH	Station	Sample ID	Sample Amount	Dilution Factor	Comments	SOP Ref	Reanalysis (if applicable)	SOLN #	IS/SS SOLN #	Analysis Time
3m3745	2	12	L9906681-02 826-TCL	10ml	1	✓	1	NA	NA	5463/6465	1627
46		13	L9906430-01 826-AF98			✓					
47		14	02 826-AFCEE			✓					
48		15	03 826-AF96			✓					
49		16	04 MS			✓					
50		17	05 MSD			✓					
51		18	06			✓					
52		19	L9906513-01 826-AF98			✓					
53		20	02			✓					
54		21	03			✓					
55	7	22	L9906589-15 624-FEW			✓	2		547-11		
56		23	17MS			✓					
57		24	19MSD			✓					2307

GH 7/1/99

Calibration STD's NA
Comments:

Alternate Source/QC STD's N/A
Backed up 6/21/99 - 6/27/99

Reviewed By: 7/1/99

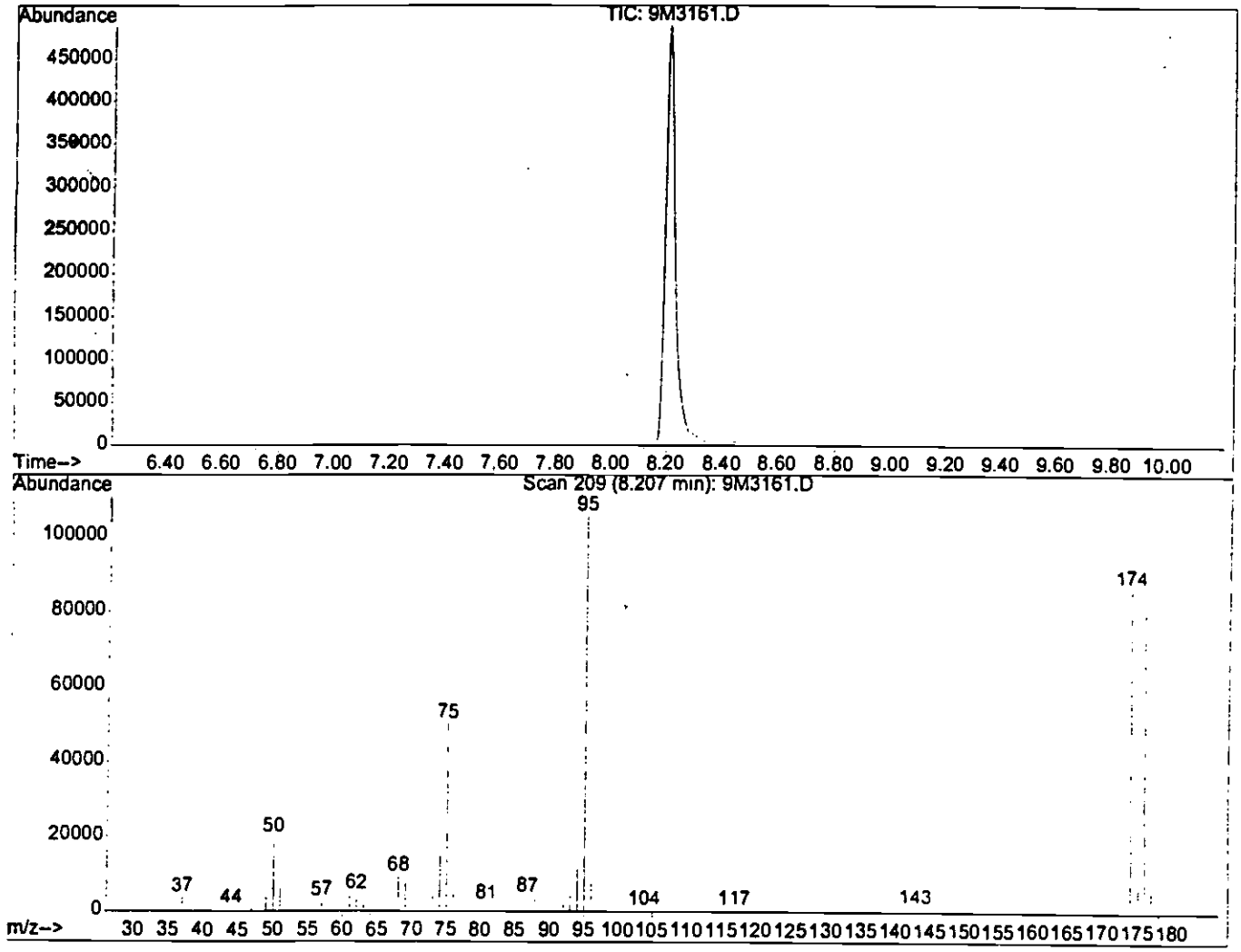
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
CC = Continuing calibration failed
C/O = Suspected carryover from previous sample

SOP References (*)
1 MSV01 Revision 0 - (R260II)
2 MSV10 Revision 0 - (624)
3 MSV08ACLP Revision 0 - (CLP 3/90)

Data File : C:\HPCHEM\1\DATA\060399\9M3161.D
Acq On : 3 Jun 1999 11:01
Sample : WG58737-01 50NG BFB
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 04/19/99

Vial: 1
Operator: JLH
Inst : HPMS_9
Multiplr: 1.00



Spectrum Information: Scan 209

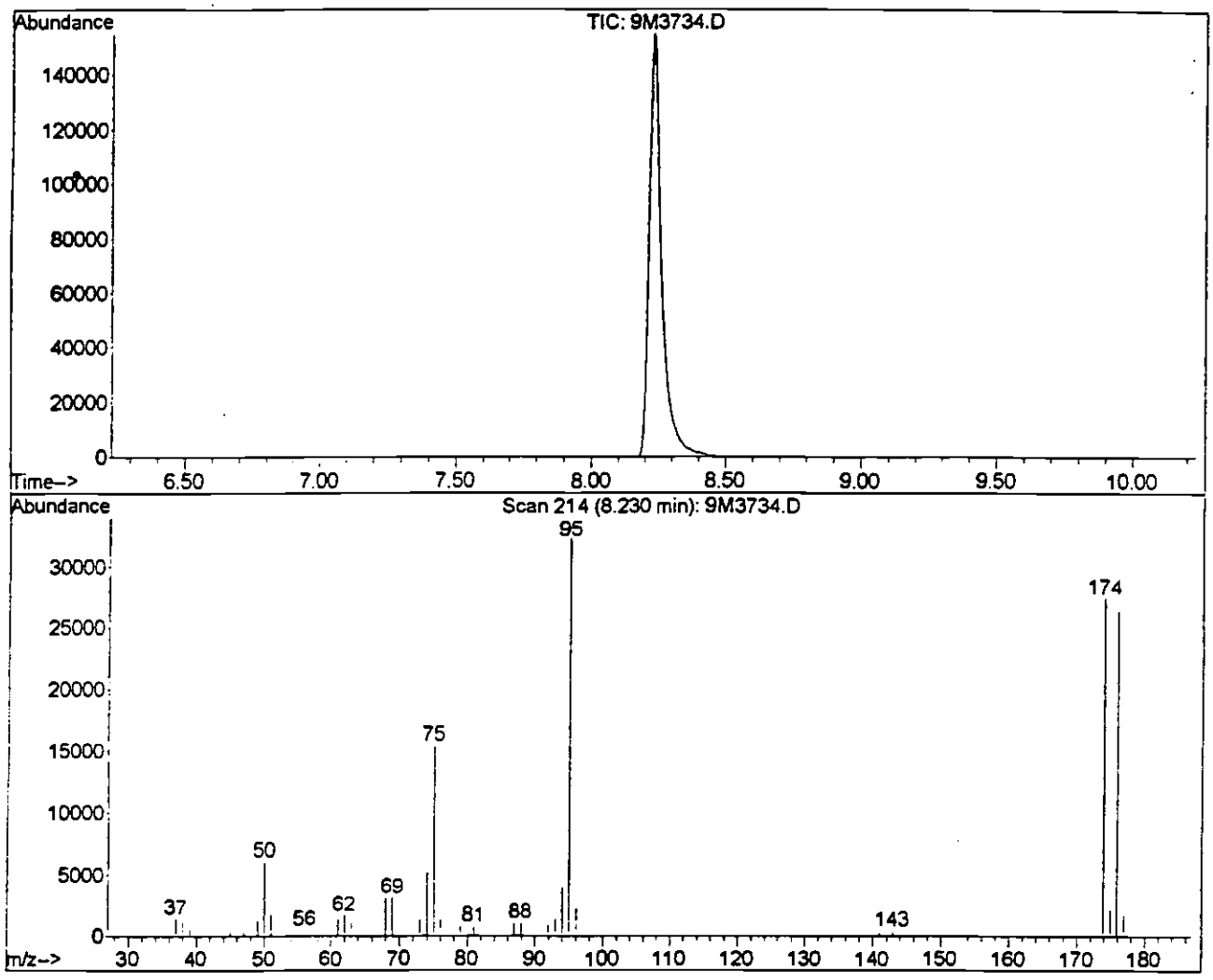
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	19720	PASS
75	95	30	60	47.6	50216	PASS
95	95	100	100	100.0	105584	PASS
96	95	5	9	7.3	7655	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.8	86392	PASS
175	174	5	9	7.4	6421	PASS
176	174	95	101	96.0	82896	PASS
177	176	5	9	6.8	5678	PASS

9M[illegible].D AF98WT.M Thu Ju[illegible]3 11:10[illegible] 1999 HPMS_9

507 777

Data File : C:\HPCHEM\1\DATA\062999\9M3734.D
Acq On : 29 Jun 1999 10:08
Sample : WG60248-01 50NG BFB
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\AF98WT.M (RTE Integrator)
Title : Method 8260B Water Analysis 06/03/99

Vial: 1
Operator: JLH
Inst : HPMS_9
Multiplr: 1.00



Spectrum Information: Scan 214

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	6025	PASS
75	95	30	60	47.7	15427	PASS
95	95	100	100	100.0	32344	PASS
96	95	5	9	6.9	2236	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.8	27416	PASS
175	174	5	9	7.7	2108	PASS
176	174	95	101	96.1	26352	PASS
177	176	5	9	6.3	1670	PASS

9M3734.D AF98WT.M Tue Jun 29 10:24:27 1999 HPMS 9

SVOCs QA/QC

FPM

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : **8270C**
Lab Name : **Kemron Environmental Services**
Base/Command : **Carswells AFB**

AAB # : **WG60163**
Contract # : **F41624-95-D-8003-0023**
Prime Contractor : **FPM**

Field sample ID	Lab Sample ID
S13SFU0300BA	L9906513-04
S13SFU0410BA	L9906513-06
S13SFU0506BA	L9906513-07
S13SFU0610BA	L9906513-08
S13SFU0606BA	L9906513-09
S13SFU0706BB	L9906513-10
S13SFU0810BA	L9906513-11
S13SFU0910BB	L9906513-12
S13SFU1010BB	L9906513-13
S13SFU1110BB	L9906513-14

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **13-JUL-99**

Title: **Laboratory Manager**

507 781

AFCEE

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	
S13SFU1110BC/DUP	L9906513-15
S13SFU1110BS/MS	L9906513-16
S13SFU1110BD/MSD	L9906513-17

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's desi as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 13-JUL-99

Title: Laboratory Manager

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)		Pyridine	0.854	0.741	0.842	0.721	0.737	0.758	0.775	7.40
3)		n-Nitrosodimethylam	0.419	0.401	0.446	0.386	0.391	0.386	0.405	5.90
4)	S	2-Fluorophenol	1.839	1.748	1.878	1.702	1.725	1.699	1.765	4.26
5)		Aniline	2.114	1.747	1.848	1.536	1.456	1.421	1.687	15.88
6)	S	Phenol-d5	1.983	1.856	1.990	1.732	1.731	1.712	1.834	7.03
7)	C	Phenol	1.798	1.650	1.748	1.511	1.491	1.475	1.612	8.69
8)		bis(2-Chloroethyl)e	1.471	1.330	1.390	1.189	1.233	1.150	1.294	9.60
9)		2-Chlorophenol	1.645	1.512	1.567	1.388	1.364	1.356	1.472	8.20
10)		1,3-Dichlorobenzene	1.650	1.529	1.547	1.364	1.331	1.296	1.453	9.76
11)	C	1,4-Dichlorobenzene	1.717	1.551	1.580	1.371	1.332	1.262	1.469	11.86
12)		Benzyl Alcohol	1.041	1.013	1.091	0.975	0.977	0.968	1.011	4.77
13)	C	1,2-Dichlorobenzene	1.610	1.482	1.496	1.304	1.250	1.188	1.388	11.88
14)		2-Methylphenol	1.277	1.198	1.244	1.079	1.075	1.051	1.154	8.46
15)		bis(2-Chloroisoprop	1.727	1.536	1.522	1.244	1.190	1.136	1.392	16.94
16)		4-Methylphenol	1.865	1.738	1.832	1.596	1.582	1.560	1.695	7.94
17)	P	n-Nitrosodipropylam	0.679	0.621	0.642	0.555	0.555	0.546	0.600	9.26
18)		Hexachloroethane	0.835	0.778	0.793	0.697	0.678	0.660	0.740	9.63
19)	I	Naphthalene-d8	ISTD							
20)	S	Nitrobenzene-d5	0.449	0.410	0.434	0.379	0.371	0.365	0.401	8.77
21)		Nitrobenzene	0.356	0.317	0.331	0.288	0.280	0.275	0.308	10.49
22)		Isophorone	0.685	0.618	0.641	0.555	0.539	0.527	0.594	10.68
23)	C	2-Nitrophenol	0.241	0.238	0.255	0.213	0.199	0.189	0.223	11.72
24)		2,4-Dimethylphenol	0.358	0.329	0.350	0.306	0.280	0.275	0.316	11.10
25)		bis(2-Chloroethoxy)	0.455	0.422	0.440	0.369	0.355	0.347	0.398	11.75
26)		Benzoic Acid		0.142	0.199	0.203	0.213	0.218	0.195	15.73
27)	C	2,4-Dichlorophenol	0.318	0.302	0.310	0.279	0.266	0.261	0.289	8.24
28)		1,2,4-Trichlorobenz	0.338	0.309	0.317	0.282	0.267	0.258	0.295	10.57
29)		Naphthalene	1.172	1.076	1.083	0.912	0.844	0.799	0.981	15.30
30)		4-Chloroaniline	0.601	0.566	0.554	0.486	0.457	0.428	0.515	13.25
31)	C	Hexachlorobutadiene	0.187	0.174	0.181	0.163	0.153	0.148	0.168	9.34
32)	C	4-Chloro-3-Methylph	0.392	0.373	0.387	0.342	0.331	0.315	0.357	8.88
33)		2-Methylnaphthalene	0.677	0.631	0.616	0.516	0.480	0.443	0.560	16.75
34)	I	Acenaphthene-d10	ISTD							
35)	P	Hexachlorocyclopent	0.321	0.372	0.429	0.393	0.399	0.378	0.382	9.45
36)	C	2,4,6-Trichlorophen	0.415	0.417	0.444	0.402	0.410	0.381	0.412	4.98
37)		2,4,5-Trichlorophen	0.468	0.445	0.489	0.425	0.410	0.396	0.439	8.04
38)	S	2-Fluorobiphenyl	1.545	1.416	1.462	1.218	1.124	1.070	1.306	14.95
39)		2-Chloronaphthalene	1.371	1.255	1.288	1.107	1.070	0.992	1.181	12.36
40)		2-Nitroaniline	0.355	0.337	0.369	0.321	0.316	0.312	0.335	6.86
41)		Dimethylphthalate	1.589	1.475	1.528	1.367	1.304	1.255	1.420	9.28

(#) = Out of Range

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
42)		Acenaphthylene	2.222	2.080	2.150	1.832	1.711	1.600	1.933	13.13
43)		2,6-Dinitrotoluene	0.374	0.377	0.407	0.379	0.380	0.360	0.379	4.09
44)		3-Nitroaniline	0.551	0.557	0.595	0.544	0.539	0.522	0.551	4.47
45)	C	Acenaphthene	1.266	1.206	1.255	1.068	0.985	0.901	1.114	13.64
46)	P	2,4-Dinitrophenol		0.177	0.235	0.233	0.229	0.215	0.218	11.01
47)	P	4-Nitrophenol		0.248	0.281	0.256	0.249	0.238	0.254	6.41
48)		Dibenzofuran	1.842	1.739	1.780	1.516	1.435	1.355	1.611	12.55
49)		2,4-Dinitrotoluene	0.479	0.508	0.550	0.504	0.490	0.487	0.503	5.01
50)		Diethylphthalate	1.640	1.538	1.538	1.350	1.271	1.214	1.425	11.97
51)		Fluorene	1.476	1.324	1.310	1.073	1.007	0.896	1.181	18.82
52)		4-Chlorophenyl Phen	0.643	0.610	0.632	0.559	0.533	0.491	0.578	10.45
53)		4-Nitroaniline	0.497	0.428	0.366	0.278	0.250	0.229	0.341	31.36
54)		1,2-Diphenylhydrazi	1.420	1.279	1.315	1.140	1.096	1.091	1.224	11.02
55)	S	2,4,6-Tribromopheno	0.230	0.231	0.261	0.253	0.246	0.246	0.244	4.98
56)	I	Phenanthrene-d10	ISTD							
57)		4,6-Dinitro-2-Methy		0.198	0.216	0.194	0.186	0.178	0.195	7.39
58)	C	n-Nitrosodiphenylam	0.634	0.572	0.572	0.468	0.434	0.381	0.510	19.1
59)		4-Bromophenyl Pheny	0.210	0.205	0.212	0.187	0.179	0.170	0.194	9.1
60)		Hexachlorobenzene	0.281	0.271	0.280	0.244	0.221	0.215	0.252	11.72
61)	C	Pentachlorophenol		0.152	0.173	0.164	0.160	0.159	0.161	4.92
62)		Phenanthrene	1.351	1.226	1.162	0.946	0.904	0.805	1.066	19.89
63)		Anthracene	1.248	1.172	1.177	0.933	0.829	0.793	1.025	19.27
64)		Carbazole	1.305	1.149	1.075	0.888	0.808	0.743	0.995	21.84
65)		Di-n-Butyl Phthalat	1.909	1.662	1.562	1.234	1.053	1.006	1.404	25.81
66)	C	Fluoranthene	1.289	1.215	1.158	1.004	0.961	0.876	1.084	14.84
67)	I	Chrysene-d12	ISTD							
68)		Benzidine		0.115	0.045	0.030	0.035	0.026	0.050	73.67
69)		Pyrene	1.508	1.392	1.483	1.140	1.066	1.005	1.266	17.50
70)	S	p-Terphenyl-d14	1.073	1.007	1.086	0.840	0.776	0.719	0.917	17.31
71)		Butyl Benzyl Phthal	0.983	0.906	0.943	0.745	0.705	0.670	0.825	16.27
72)		Benzo[a]anthracene	1.280	1.194	1.298	1.128	1.109	1.075	1.181	7.85
73)		3,3'-Dichlorobenzid	0.482	0.379	0.316	0.291	0.306	0.321	0.349	20.48
74)		Chrysene	1.179	1.137	1.241	1.065	1.026	0.993	1.107	8.61
75)		bis(2-Ethylhexyl)ph	1.367	1.235	1.275	1.013	0.962	0.917	1.128	16.61
76)	I	Perylene-d12	ISTD							
77)	C	Di-n-Octyl Phthalat	2.269	2.127	2.309	1.890	1.793	1.750	2.023	12.08
78)		Benzo[b]fluoranthen	1.457	1.270	1.466	1.342	1.324	1.314	1.362	5.91
79)		Benzo[k]fluoranthen	1.333	1.248	1.315	1.113	1.053	1.019	1.180	11.56
80)	C	Benzo[a]pyrene	1.204	1.179	1.293	1.154	1.139	1.123	1.182	5.19
81)		Indeno[1,2,3-cd]pyr	1.453	1.446	1.609	1.458	1.477	1.482	1.487	4.10
82)		Dibenz[ah]anthracen	1.145	1.167	1.308	1.179	1.187	1.188	1.195	4.8

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

	Compound	4	20	50	80	100	120	Avg.	%RSD
83)	Benzo[ghi]perylene	1.276	1.275	1.427	1.329	1.363	1.384	1.342	4.53

(#) = Out of Range

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG60163
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS3
Date of Initial Calibration: 23-Jun-99
2nd Source ID: ALT HPMS3 23-JUN-1999

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	2.32	
Hexachlorocyclopentadiene *	7.74	
2,4-Dinitrophenol *	36.70	*
4-Nitrophenol *	8.76	
Phenol #	0.70	
1,4-Dichlorobenzene #	1.68	
2-Nitrophenol #	8.04	
2,4-Dichlorophenol #	6.38	
Hexachlorobutadiene #	7.92	
4-Chloro-3-methyl phenol #	6.46	
2,4,6-Trichlorophenol #	11.00	
Acenaphthene #	10.92	
n-Nitrosodiphenylamine #	3.16	
Pentachlorophenol #	3.94	
Fluoranthene #	4.56	
Di-n-octylphthalate #	0.34	
Benzo(a)pyrene #	5.80	
1,2,4-Trichlorobenzene	6.16	
1,2-Dichlorobenzene	0.94	
1,3-Dichlorobenzene	1.76	
2,4-Dinitrotoluene	8.54	
2,6-Dinitrotoluene	1.92	
2-Chloronaphthalene	8.94	
2-Methylnaphthalene	1.04	
2-Nitroaniline	2.14	
3-Nitroaniline	6.30	
3,3-Dichlorobenzidine	3.04	
4-Bromophenyl phenyl ether	16.14	
4-Chloroaniline	10.18	
4-Chlorophenyl phenyl ether	8.96	
4-Nitroaniline	27.56	*
Acenaphthylene	1.94	
Anthracene	4.84	
Benz(a)anthracene	4.62	
Benzo(b)fluoranthene	2.40	
Benzo(g,h,i)perylene	1.68	
Benzyl alcohol	3.34	
Bis (2-chloroethoxy)methane	3.66	
Bis (2-chloroethyl) ether	5.74	
Bis (2-chloroisopropyl) ether	5.04	
Bis (2-ethylhexyl) phthalate	5.18	
Butyl Benzyl Phthalate	7.60	
Chrysene	3.82	
Di-n-butylphthalate	0.76	
Dibenz (a,h) Anthracene	6.94	
Dibenzofuran	7.96	
Diethyl phthalate	7.98	
Dimethyl phthalate	5.68	
Fluorene	1.16	
Hexachlorobenzene	6.80	
Hexachloroethane	0.82	
Indeno(1,2,3-cd)pyrene	4.52	
Isophorone	0.90	
n-Nitrosodimethylamine	39.00	*
Naphthalene	2.34	
Nitrobenzene	2.68	
Phenanthrene	6.76	
Pyrene	4.40	
2,4,5-Trichlorophenol	5.40	
2,4-Dimethylphenol	0.06	
2-Chlorophenol	2.74	
2-Methylphenol	2.24	
4,6-Dinitro-2-methylphenol	15.66	
4-Methylphenol	5.34	
Benzoic acid	11.96	

Comments:

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062699\3M17510.D Vial: 2
Acq On : 26 Jun 1999 10:38 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Mon Jun 28 08:26:27 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	78	0.00
2		Pyridine	50.000	53.375	-6.8	77	0.00
3		n-Nitrosodimethylamine	50.000	48.028	3.9	68	0.00
4	S	2-Fluorophenol	50.000	51.999	-4.0	76	0.00
5		Aniline	50.000	57.513	-15.0	82	0.00
6	S	Phenol-d5	50.000	53.441	-6.9	77	0.00
7	C	Phenol	50.000	53.933	-7.9	78	0.00
8		bis(2-Chloroethyl)ether	50.000	56.088	-12.2	81	0.00
9		2-Chlorophenol	50.000	53.063	-6.1	78	0.00
10		1,3-Dichlorobenzene	50.000	52.815	-5.6	77	0.00
11	C	1,4-Dichlorobenzene	50.000	52.893	-5.8	77	0.00
12		Benzyl Alcohol	50.000	54.196	-8.4	78	0.00
13	C	1,2-Dichlorobenzene	50.000	53.164	-6.3	77	0.00
		2-Methylphenol	50.000	54.366	-8.7	79	0.00
		bis(2-Chloroisopropyl)ether	50.000	53.790	-7.6	78	0.00
16		4-Methylphenol	50.000	53.790	-7.6	78	0.00
17	P	n-Nitrosodipropylamine	50.000	54.419	-8.8	79	0.00
18		Hexachloroethane	50.000	52.755	-5.5	77	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	79	0.00
20	S	Nitrobenzene-d5	50.000	54.290	-8.6	79	0.00
21		Nitrobenzene	50.000	54.283	-8.6	79	0.00
22		Isophorone	50.000	54.716	-9.4	80	0.00
23	C	2-Nitrophenol	50.000	56.825	-13.7	78	0.00
24		2,4-Dimethylphenol	50.000	55.174	-10.3	78	0.00
25		bis(2-Chloroethoxy)methane	50.000	55.995	-12.0	80	0.00
26		Benzoic Acid	50.000	38.499	23.0	64	0.00
27	C	2,4-Dichlorophenol	50.000	52.677	-5.4	77	0.00
28		1,2,4-Trichlorobenzene	50.000	53.235	-6.5	78	0.00
29		Naphthalene	50.000	51.634	-3.3	77	0.00
30		4-Chloroaniline	50.000	52.000	-4.0	76	0.00
31	C	Hexachlorobutadiene	50.000	54.252	-8.5	79	0.00
32	C	4-Chloro-3-Methylphenol	50.000	54.340	-8.7	79	0.00
33		2-Methylnaphthalene	50.000	52.329	-4.7	78	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	82	0.00
35	P	Hexachlorocyclopentadiene	50.000	46.731	6.5	68	0.00
36	C	2,4,6-Trichlorophenol	50.000	51.147	-2.3	78	0.00
37		2,4,5-Trichlorophenol	50.000	51.066	-2.1	75	0.00
	S	2-Fluorobiphenyl	50.000	50.430	-0.9	78	0.00
		2-Chloronaphthalene	50.000	52.993	-6.0	80	0.00

(#) = Out of Range

507 787 Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062699\3M17510.D Vial: 2
Acq On : 26 Jun 1999 10:38 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Mon Jun 28 08:26:27 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	51.385	-2.8	77	0.00
41		Dimethylphthalate	50.000	50.654	-1.3	77	0.00
42		Acenaphthylene	50.000	52.236	-4.5	77	0.00
43		2,6-Dinitrotoluene	50.000	51.744	-3.5	79	0.00
44		3-Nitroaniline	50.000	51.646	-3.3	78	0.00
45	C	Acenaphthene	50.000	52.491	-5.0	76	0.00
46	P	2,4-Dinitrophenol	50.000	42.345	15.3	64	0.00
47	P	4-Nitrophenol	50.000	49.304	1.4	73	0.00
48		Dibenzofuran	50.000	52.595	-5.2	78	0.00
49		2,4-Dinitrotoluene	50.000	50.693	-1.4	76	0.00
50		Diethylphthalate	50.000	51.635	-3.3	78	0.00
51		Fluorene	50.000	50.277	-0.6	79	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	52.522	-5.0	79	0.00
53		4-Nitroaniline	50.000	56.284	-12.6	84	0.00
54		1,2-Diphenylhydrazine	50.000	51.181	-2.4	78	0.00
55	S	2,4,6-Tribromophenol	50.000	49.581	0.8	76	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	77	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	53.352	-6.7	74	0.00
58	C	n-Nitrosodiphenylamine	50.000	53.787	-7.6	78	0.00
59		4-Bromophenyl Phenyl Ether	50.000	54.768	-9.5	77	0.00
60		Hexachlorobenzene	50.000	55.357	-10.7	77	0.00
61	C	Pentachlorophenol	50.000	49.645	0.7	71	0.00
62		Phenanthrene	50.000	54.821	-9.6	80	0.00
63		Anthracene	50.000	52.342	-4.7	74	0.00
64		Carbazole	50.000	48.883	2.2	73	0.00
65		Di-n-Butyl Phthalate	50.000	50.527	-1.1	73	0.00
66	C	Fluoranthene	50.000	51.287	-2.6	74	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	76	0.00
68		Benzidine	50.000	137.968	-175.9#	235	0.00
69		Pyrene	50.000	52.807	-5.6	72	0.00
70	S	p-Terphenyl-d14	50.000	53.480	-7.0	73	0.00
71		Butyl Benzyl Phthalate	50.000	51.481	-3.0	71	0.00
72		Benzo[a]anthracene	50.000	51.914	-3.8	71	0.00
73		3,3'-Dichlorobenzidine	50.000	51.235	-2.5	75	0.00
74		Chrysene	50.000	52.494	-5.0	71	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	51.578	-3.2	72	0.00
76	I	Perylene-d12	40.000	40.000	0.0	73	0.00
77	C	Di-n-Octyl Phthalate	50.000	54.242	-8.5	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062699\3M17510.D Vial: 2
Acq On : 26 Jun 1999 10:38 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Mon Jun 28 08:26:27 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	50.471	-0.9	68	0.00
79		Benzo[k]fluoranthene	50.000	51.880	-3.8	68	0.00
80	C	Benzo[a]pyrene	50.000	51.750	-3.5	69	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	52.751	-5.5	71	-0.01
82		Dibenz[ah]anthracene	50.000	52.968	-5.9	71	-0.01
83		Benzo[ghi]perylene	50.000	51.481	-3.0	71	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062999\3M17571.D Vial: 2
Acq On : 29 Jun 1999 13:54 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 14:25:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	80	0.02
2		Pyridine	50.000	41.419	17.2	61	0.04
3		n-Nitrosodimethylamine	50.000	45.051	9.9	66	0.04
4	S	2-Fluorophenol	50.000	41.407	17.2	63	0.04
5		Aniline	50.000	53.070	-6.1	79	0.03
6	S	Phenol-d5	50.000	53.030	-6.1	79	0.04
7	C	Phenol	50.000	53.030	-6.1	79	0.04
8		bis(2-Chloroethyl)ether	50.000	55.743	-11.5	83	0.02
9		2-Chlorophenol	50.000	54.920	-9.8	83	0.03
10		1,3-Dichlorobenzene	50.000	53.301	-6.6	81	0.02
11	C	1,4-Dichlorobenzene	50.000	53.561	-7.1	80	0.02
12		Benzyl Alcohol	50.000	51.656	-3.3	77	0.03
13	C	1,2-Dichlorobenzene	50.000	55.293	-10.6	83	0.02
14		2-Methylphenol	50.000	55.619	-11.2	83	0.02
15		bis(2-Chloroisopropyl)ether	50.000	66.504	-33.0	95	0.02
16		4-Methylphenol	50.000	56.321	-12.6	84	0.03
17	P	n-Nitrosodipropylamine	50.000	61.089	-22.2	92	0.02
18		Hexachloroethane	50.000	57.731	-15.5	87	0.02
19	I	Naphthalene-d8	40.000	40.000	0.0	90	0.02
20	S	Nitrobenzene-d5	50.000	51.608	-3.2	86	0.02
21		Nitrobenzene	50.000	51.047	-2.1	85	0.02
22		Isophorone	50.000	52.516	-5.0	87	0.03
23	C	2-Nitrophenol	50.000	56.570	-13.1	89	0.02
24		2,4-Dimethylphenol	50.000	54.060	-8.1	88	0.02
25		bis(2-Chloroethoxy)methane	50.000	53.299	-6.6	86	0.02
26		Benzoic Acid	50.000	56.865	-13.7	108	0.03
27	C	2,4-Dichlorophenol	50.000	51.082	-2.2	85	0.02
28		1,2,4-Trichlorobenzene	50.000	49.149	1.7	82	0.02
29		Naphthalene	50.000	53.403	-6.8	90	0.02
30		4-Chloroaniline	50.000	50.512	-1.0	84	0.02
31	C	Hexachlorobutadiene	50.000	48.822	2.4	81	0.02
32	C	4-Chloro-3-Methylphenol	50.000	52.905	-5.8	88	0.03
33		2-Methylnaphthalene	50.000	53.829	-7.7	91	0.02
34	I	Acenaphthene-d10	40.000	40.000	0.0	97	0.02
35	P	Hexachlorocyclopentadiene	50.000	45.152	9.7	78	0.02
36	C	2,4,6-Trichlorophenol	50.000	47.683	4.6	86	0.02
37		2,4,5-Trichlorophenol	50.000	49.253	1.5	86	0.03
38	S	2-Fluorobiphenyl	50.000	48.535	2.9	89	0.00
39		2-Chloronaphthalene	50.000	51.554	-3.1	92	0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\062999\3M17571.D Vial: 2
Acq On : 29 Jun 1999 13:54 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 14:25:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	56.002	-12.0	99	0.02
41		Dimethylphthalate	50.000	50.960	-1.9	92	0.00
42		Acenaphthylene	50.000	54.176	-8.4	94	0.02
43		2,6-Dinitrotoluene	50.000	50.810	-1.6	92	0.02
44		3-Nitroaniline	50.000	51.220	-2.4	92	0.02
45	C	Acenaphthene	50.000	55.284	-10.6	95	0.02
46	P	2,4-Dinitrophenol	50.000	57.425	-14.8	103	0.02
47	P	4-Nitrophenol	50.000	56.254	-12.5	98	0.02
48		Dibenzofuran	50.000	52.883	-5.8	93	0.02
49		2,4-Dinitrotoluene	50.000	50.942	-1.9	90	0.02
50		Diethylphthalate	50.000	54.269	-8.5	97	0.02
51		Fluorene	50.000	51.842	-3.7	96	0.02
52		4-Chlorophenyl Phenyl Ether	50.000	51.802	-3.6	92	0.02
53		4-Nitroaniline	50.000	55.454	-10.9	98	0.03
		1,2-Diphenylhydrazine	50.000	56.416	-12.8	102	0.02
	S	2,4,6-Tribromophenol	50.000	48.641	2.7	88	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	96	0.02
57		4,6-Dinitro-2-Methylphenol	50.000	53.014	-6.0	92	0.02
58	C	n-Nitrosodiphenylamine	50.000	52.377	-4.8	96	0.02
59		4-Bromophenyl Phenyl Ether	50.000	51.891	-3.8	91	0.02
60		Hexachlorobenzene	50.000	52.279	-4.6	91	0.00
61	C	Pentachlorophenol	50.000	51.871	-3.7	93	0.02
62		Phenanthrene	50.000	53.368	-6.7	97	0.02
63		Anthracene	50.000	53.616	-7.2	94	0.02
64		Carbazole	50.000	48.811	2.4	91	0.00
65		Di-n-Butyl Phthalate	50.000	58.271	-16.5	101	0.00
66	C	Fluoranthene	50.000	55.803	-11.6	101	0.02
67	I	Chrysene-d12	40.000	40.000	0.0	103	0.02
68		Benzidine	50.000	66.002	-32.0	152	0.02
69		Pyrene	50.000	53.183	-6.4	98	0.02
70	S	p-Terphenyl-d14	50.000	52.554	-5.1	98	0.02
71		Butyl Benzyl Phthalate	50.000	54.808	-9.6	102	0.02
72		Benzo[a]anthracene	50.000	51.601	-3.2	96	0.03
73		3,3'-Dichlorobenzidine	50.000	51.369	-2.7	102	0.03
74		Chrysene	50.000	52.412	-4.8	96	0.03
75		bis(2-Ethylhexyl)phthalate	50.000	54.235	-8.5	101	0.02
76	I	Perylene-d12	40.000	40.000	0.0	97	0.05
	C	Di-n-Octyl Phthalate	50.000	56.406	-12.8	95	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062999\3M17571.D Vial: 2
Acq On : 29 Jun 1999 13:54 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 14:25:01 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	53.313	-6.6	96	0.00
79		Benzo[k]fluoranthene	50.000	51.011	-2.0	88	0.00
80	C	Benzo[a]pyrene	50.000	52.059	-4.1	92	0.04
81		Indeno[1,2,3-cd]pyrene	50.000	54.817	-9.6	98	0.07
82		Dibenz[ah]anthracene	50.000	55.426	-10.9	98	0.07
83		Benzo[ghi]perylene	50.000	52.414	-4.8	95	0.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG59856-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	0.033	0.70	
1,2-Dichlorobenzene	0.033	0.70	
1,3-Dichlorobenzene	0.032	0.70	
1,4-Dichlorobenzene	0.034	0.70	
2,4,5-Trichlorophenol	0.047	3.3	
2,4,6-Trichlorophenol	0.042	0.30	
2,4-Dichlorophenol	0.041	0.30	
2,4-Dimethylphenol	0.037	0.30	
2,4-Dinitrophenol	0.11	3.3	
2,4-Dinitrotoluene	0.042	0.70	
2,6-Dinitrotoluene	0.04	0.70	
2-Chloronaphthalene	0.04	0.70	
2-Chlorophenol	0.034	0.30	
2-Methylnaphthalene	0.037	0.70	
2-Methylphenol	0.063	0.30	
2-Nitroaniline	0.046	3.3	
2-Nitrophenol	0.032	0.30	
3,3'-Dichlorobenzidine	0.15	1.3	
3-Nitroaniline	0.072	3.3	
4,6-Dinitro-2-methylphenol	0.036	3.3	
4-Bromophenyl-phenylether	0.038	0.70	
4-Chloro-3-methylphenol	0.046	1.3	
4-Chloroaniline	0.053	1.3	
4-Chlorophenyl-phenyl ether	0.044	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG59856-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
4-Methylphenol	0.041	0.30	
4-Nitroaniline	0.04	3.3	
Acenaphthene	0.042	0.70	
Acenaphthylene	0.042	0.70	
Anthracene	0.035	0.70	
Benzo(a)anthracene	0.029	0.70	
Benzo(a)pyrene	0.026	0.70	
Benzo(b)fluoranthene	0.028	0.70	
Benzo(g,h,i)Perylene	0.037	0.70	
Benzoic acid	0.02	1.6	
Benzyl alcohol	0.06	1.3	
Bis(2-Chloroethoxy)Methane	0.047	0.70	
Bis(2-Chloroethyl)ether	0.041	0.70	
Butylbenzylphthalate	0.031	0.70	
Chrysene	0.041	0.70	
Di-N-Butylphthalate	0.031	0.70	
Di-n-octylphthalate	0.031	0.70	
Dibenzo(a,h)Anthracene	0.039	0.70	
Dibenzofuran	0.043	0.70	
Diethylphthalate	0.049	0.70	
Dimethylphthalate	0.046	0.70	
Fluoranthene	0.028	0.70	
Fluorene	0.044	0.70	
Hexachlorobenzene	0.04	0.70	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: mg/kg

Method Blank ID: WG59856-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	0.037	0.70	
Hexachlorocyclopentadiene	0.087	0.70	
Hexachloroethane	0.033	0.70	
Indeno(1,2,3-cd)pyrene	0.036	0.70	
Isophorone	0.043	0.70	
N-Nitroso-di-n-propylamine	0.035	0.70	
N-Nitrosodiphenylamine	0.048	0.70	
Naphthalene	0.036	0.70	
Nitrobenzene	0.034	0.70	
Pentachlorophenol	0.02	3.3	
Phenanthrene	0.043	0.70	
Phenol	0.032	0.30	
Pyrene	0.03	0.70	
bis(2-Chloroisopropyl)ether	0.041	0.70	
bis(2-Ethylhexyl)phthalate	0.039	0.70	
p-Nitrophenol	0.057	1.6	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.67	1.13	67.7	34 - 152	
1,2-Dichlorobenzene	1.67	1.07	64.1	32 - 135	
1,3-Dichlorobenzene	1.67	1.07	64.1	26 - 135	
1,4-Dichlorobenzene	1.67	1.06	63.5	25 - 135	
2,4,5-Trichlorophenol	1.67	1.25	74.9	25 - 175	
2,4,6-Trichlorophenol	1.67	1.17	70.1	29 - 138	
2,4-Dichlorophenol	1.67	1.16	69.5	36 - 135	
2,4-Dimethylphenol	1.67	1.27	76	35 - 149	
2,4-Dinitrophenol	1.67	1.32	79	25 - 161	
2,4-Dinitrotoluene	1.67	1.39	83.2	29 - 149	
2,6-Dinitrotoluene	1.67	1.28	76.6	41 - 135	
2-Chloronaphthalene	1.67	1.18	70.7	50 - 135	
2-Chlorophenol	1.67	1.06	63.5	31 - 135	
2-Methylnaphthalene	1.67	1.12	67.1	31 - 135	
2-Methylphenol	1.67	1.12	67.1	25 - 135	
2-Nitroaniline	1.67	1.25	74.9	40 - 135	
2-Nitrophenol	1.67	1.07	64.1	34 - 135	
3,3'-Dichlorobenzidine	1.67	1.27	76	25 - 175	
3-Nitroaniline	1.67	1.24	74.3	41 - 135	
4,6-Dinitro-2-methylphenol	1.67	1.49	89.2	25 - 144	
4-Bromophenyl-phenylether	1.67	1.39	83.2	43 - 137	
4-Chloro-3-methylphenol	1.67	1.27	76	34 - 135	
4-Chloroaniline	1.67	1.07	64.1	35 - 146	
4-Chlorophenyl-phenyl ether	1.67	1.29	77.2	41 - 142	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	1.67	1.14	68.3	25 - 135	
4-Nitroaniline	1.67	1.61	96.4	30 - 153	
Acenaphthene	1.67	1.29	77.2	39 - 135	
Acenaphthylene	1.67	1.24	74.3	37 - 135	
Anthracene	1.67	1.38	82.6	35 - 175	
Benzo(a)anthracene	1.67	1.50	89.8	41 - 143	
Benzo(a)pyrene	1.67	1.47	88	31 - 135	
Benzo(b)fluoranthene	1.67	1.37	82	27 - 135	
Benzo(g,h,i)Perylene	1.67	1.45	86.8	25 - 159	
Benzoic acid	1.67	0.622	37.2	25 - 172	
Benzyl alcohol	1.67	1.12	67.1	25 - 135	
Bis(2-Chloroethoxy)Methane	1.67	1.15	68.9	39 - 135	
Bis(2-Chloroethyl)ether	1.67	1.06	63.5	34 - 135	
Butylbenzylphthalate	1.67	1.44	86.2	25 - 135	
Chrysene	1.67	1.52	91	45 - 143	
Di-N-Butylphthalate	1.67	1.45	86.8	25 - 136	
Di-n-octylphthalate	1.67	1.47	88	28 - 137	
Dibenzo(a,h)Anthracene	1.67	1.55	92.8	40 - 135	
Dibenzofuran	1.67	1.26	75.4	42 - 135	
Diethylphthalate	1.67	1.40	83.8	27 - 135	
Dimethylphthalate	1.67	1.31	78.4	25 - 175	
Fluoranthene	1.67	1.52	91	37 - 135	
Fluorene	1.67	1.20	71.9	38 - 149	
Hexachlorobenzene	1.67	1.45	86.8	36 - 143	

Comments:

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ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	1.67	1.18	70.7	25 - 135	
Hexachlorocyclopentadiene	1.67	0.970	58.1	31 - 135	
Hexachloroethane	1.67	1.10	65.9	25 - 163	
Indeno(1,2,3-cd)pyrene	1.67	1.48	88.6	25 - 170	
Isophorone	1.67	1.24	74.3	25 - 175	
N-Nitroso-di-n-propylamine	1.67	1.13	67.7	27 - 135	
N-Nitrosodiphenylamine	1.67	1.34	80.2	25 - 135	
Naphthalene	1.67	1.05	62.9	40 - 135	
Nitrobenzene	1.67	1.09	65.3	36 - 143	
Pentachlorophenol	1.67	1.40	83.8	38 - 146	
Phenanthrene	1.67	1.35	80.8	44 - 135	
Phenol	1.67	1.05	62.9	25 - 135	
Pyrene	1.67	1.48	88.6	37 - 146	
bis(2-Chloroisopropyl)ether	1.67	1.02	61.1	26 - 175	
bis(2-Ethylhexyl)phthalate	1.67	1.40	83.8	25 - 139	
p-Nitrophenol	1.67	1.37	82	25 - 141	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG60163

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration HPMS3 23-JUN-1999

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
1,2,4-Trichlorobenzene		1.9	1.35	71.1	1.58	83.2	15.5	34 - 152	30	
1,2-Dichlorobenzene		1.9	1.53	80.5	1.72	90.5	11.2	32 - 135	30	
1,3-Dichlorobenzene		1.9	1.48	77.9	1.67	87.9	12.3	26 - 135	30	
1,4-Dichlorobenzene		1.9	1.51	79.5	1.69	88.9	11.3	25 - 135	30	
2,4,5-Trichlorophenol		1.9	1.49	78.4	1.8	94.7	18.7	25 - 175	30	
2,4,6-Trichlorophenol		1.9	1.41	74.2	1.67	87.9	17	29 - 138	30	
2,4-Dichlorophenol		1.9	1.52	80	1.75	92.1	13.9	36 - 135	30	
2,4-Dimethylphenol		1.9	1.74	91.6	2.0	105.3	14	35 - 149	30	
2,4-Dinitrophenol		1.9	1.45	76.3	1.75	92.1	18.4	25 - 161	30	
2,4-Dinitrotoluene		1.9	1.61	84.7	1.9	100	16.2	29 - 149	30	
2,6-Dinitrotoluene		1.9	1.51	79.5	1.75	92.1	14.6	41 - 135	30	
2-Chloronaphthalene		1.9	1.57	82.6	1.77	93.2	12.2	50 - 135	30	
2-Chlorophenol		1.9	1.56	82.1	1.81	95.3	14.9	31 - 135	30	
2-Methylnaphthalene		1.9	1.64	86.3	1.94	102.1	17.1	31 - 135	30	
2-Methylphenol		1.9	1.7	89.5	1.93	101.6	12.5	25 - 135	30	
2-Nitroaniline		1.9	1.94	102.1	2.1	110.5	7.9	40 - 135	30	
2-Nitrophenol		1.9	1.5	78.9	1.72	90.5	13.4	34 - 135	30	
3,3'-Dichlorobenzidine		1.9	2.03	106.8	0.0	0		25 - 175	30	*
3-Nitroaniline		1.9	1.56	82.1	1.7	89.5	9.1	41 - 135	30	
4,6-Dinitro-2-methylphenol		1.9	1.61	84.7	1.92	101.1	17.4	25 - 144	30	
4-Bromophenyl-phenylether		1.9	1.59	83.7	1.92	101.1	18.8	43 - 137	30	
4-Chloro-3-methylphenol		1.9	1.7	89.5	1.98	104.2	14.8	34 - 135	30	
4-Chloroaniline		1.9	1.51	79.5	0.144	7.6	165.1	35 - 146	30	*
4-Chlorophenyl-phenyl ether		1.9	1.59	83.7	1.84	96.8	14.6	41 - 142	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG60163

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration HPMS3 23-JUN-1999

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
4-Methylphenol		1.9	1.7	89.5	1.92	101.1	11.9	25 - 135	30	
4-Nitroaniline		1.9	2.24	117.9	0.76	40	98.6	30 - 153	30	*
Acenaphthene		1.9	1.83	96.3	2.08	109.5	12.8	39 - 135	30	
Acenaphthylene		1.9	1.76	92.6	1.99	104.7	12.1	37 - 135	30	
Anthracene		1.9	1.98	104.2	2.48	130.5	22.4	35 - 175	30	
Benzo(a)anthracene		1.9	2.06	108.4	2.43	127.9	16.7	41 - 143	30	
Benzo(a)pyrene		1.9	1.69	88.9	2.0	105.3	16.6	31 - 135	30	
Benzo(b)fluoranthene		1.9	1.66	87.4	1.84	96.8	10.4	27 - 135	30	
Benzo(g,h,i)Perylene		1.9	1.76	92.6	2.07	108.9	16	25 - 159	30	
Benzoic acid		1.9	0.709	37.3	1.03	54.2	36.8	25 - 172	30	*
Benzyl alcohol		1.9	1.52	80	1.69	88.9	10.6	25 - 135	30	
Bis(2-Chloroethoxy)Methane		1.9	1.61	84.7	1.89	99.5	15.6	39 - 135	30	
Bis(2-Chloroethyl)ether		1.9	1.63	85.8	1.82	95.8	11.2	34 - 135	30	
Butylbenzylphthalate		1.9	2.27	119.5	2.8	147.4	20.6	25 - 135	30	*
Chrysene		1.9	2.11	111.1	2.5	131.6	16.7	45 - 143	30	
Di-N-Butylphthalate		1.9	2.41	126.8	3.05	160.5	23.3	25 - 136	30	*
Di-n-octylphthalate		1.9	1.76	92.6	1.94	102.1	9.8	28 - 137	30	
Dibenzo(a,h)Anthracene		1.9	1.9	100	2.27	119.5	18	40 - 135	30	
Dibenzofuran		1.9	1.7	89.5	1.95	102.6	13.7	42 - 135	30	
Diethylphthalate		1.9	1.9	100	2.18	114.7	13.9	27 - 135	30	
Dimethylphthalate		1.9	1.58	83.2	1.82	95.8	14	25 - 175	30	
Fluoranthene		1.9	2.11	111.1	2.48	130.5	15.8	37 - 135	30	
Fluorene		1.9	1.76	92.6	2.09	110	17.1	38 - 149	30	
Hexachlorobenzene		1.9	1.66	87.4	2.01	105.8	19.2	36 - 143	30	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 8

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 8270C AAB # : WG60163

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration HPMS3 23-JUN-1999

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Hexachlorobutadiene		1.9	1.39	73.2	1.58	83.2	13	25 - 135	30	
Hexachlorocyclopentadiene		1.9	1.09	57.4	1.3	68.4	17.1	31 - 135	30	
Hexachloroethane		1.9	1.7	89.5	1.93	101.6	12.5	25 - 163	30	
Indeno(1,2,3-cd)pyrene		1.9	1.83	96.3	2.2	115.8	18.6	25 - 170	30	
Isophorone		1.9	1.7	89.5	1.94	102.1	13.1	25 - 175	30	
N-Nitroso-di-n-propylamine		1.9	1.99	104.7	2.23	117.4	11.3	27 - 135	30	
N-Nitrosodiphenylamine		1.9	1.73	91.1	1.25	65.8	32.1	25 - 135	30	*
Naphthalene		1.9	1.55	81.6	1.77	93.2	13.7	40 - 135	30	
Nitrobenzene		1.9	1.56	82.1	1.78	93.7	13.6	36 - 143	30	
Pentachlorophenol		1.9	1.57	82.6	1.99	104.7	23.6	38 - 146	30	
Phenanthrene		1.9	1.93	101.6	2.41	126.8	22	44 - 135	30	
Phenol		1.9	1.63	85.8	1.84	96.8	12.5	25 - 135	30	
Pyrene		1.9	2.11	111.1	2.63	138.4	21.6	37 - 146	30	
bis(2-Chloroisopropyl)ether		1.9	2.27	119.5	2.61	137.4	14	26 - 175	30	
bis(2-Ethylhexyl)phthalate		1.9	2.26	118.9	2.73	143.7	18.7	25 - 139	30	*
p-Nitrophenol		1.9	2.2	115.8	2.57	135.3	15.2	25 - 141	30	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C AAB#: WG60163

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SFU0300BA	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0410BA	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0506BA	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0610BA	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0606BA	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0706BB	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0810BA	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU0910BB	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU1010BB	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	
S13SFU1110BB	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	

Comments:

Forms by ChemSW(707)864-0645;v1.0;12/1/97

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/94 Column ID DB5 Analyst mdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP5973 Data Subdirectory CX2394 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17437	50 PPM DFTPP	1	DFTPP	✓	540-20
38	50 PPM BNA STD		BN1	✓	541-46-4
39	4 PPM BNA STD			✓	-1
40	20 PPM BNA STD			✓	-3
41	80 PPM BNA STD			✓	-5
42	100 PPM BNA STD			✓	-6
43	120 PPM BNA STD			✓	-7
44	50 PPM ALT SOURCE BNA STD			✓	
45	W659653-02 SOIL BLK 6/18 V117P171			✓	
46	W659653-03 SOIL LCS 6/18 V117P171			✓	
47	L9966437-01 SOIL			✓	
48	1 -03 SOIL			✓	
49	50 PPM DFTPP		DFTPP	✓	

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 803

Date 6/23/99 Instrument ID [illegible] Data Subdirectory 062399 Column ID [illegible]

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17450	50 PPM BNA STD	1	[illegible]	✓	1
51	L9906437-02 SOIL			✓	
52	-04 SOIL			✓	
53	-05 SOIL			✓	
54	-06 SOIL			✓	
55	-07 SOIL			✓	
56	-08 SOIL			✓	
57	-09 SOIL			✓	
58	-10 SOIL			✓	
59	W659653-04 L9906437-11 MS SOIL			✓	
60	W659653-05 L9906437-12 MSD SOIL			✓	
61	L9906437-13 SOIL			✓	
62	-14 SOIL			✓	
63	-15 SOIL			RR	155.6 low
64	-16 SOIL				
65	-17 SOIL				
66	-18 SOIL				
67	-19 SOIL			✓	
68	-20 SOIL			RR	155.6 low

Reviewed By: [illegible] 6/24/99

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements
RE = Re-extraction analysis
CC = [illegible] calibration failed

507 804

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/26/99 Column ID DB5 Analyst MPC SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HPMS3 Data Subdirectory 062699 SOP # MSS02 Rev. # 1 625

Daily Check	
Helium >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17509	50PPM DFTPP	1X	DFTPP	✓	540-26
3m17510	50 PPM BNA STD		BNA	✓	541-46-4
3m17511	W660101-02 SOIL BLK 6/25 V118P83			✓	
3m17512	W660101-03 ~~LCS~~ CK 6/25 SOIL LCS 6/25 V118P83			✓	
3m17523	W659856-02 SOIL BLK 6/23 V118P21			✓	
3m17524	W659856-03 SOIL LCS 6/23 V118P21			✓	
3m17513	L9906586-02 SOIL			✓	
14	-07 SOIL			✓	
15	-01 SOIL			✓	
16	-04 SOIL			✓	
17	W660101-04 L9906586-05 MS SOIL			✓	
18	W660101-05 L9906586-06 MSD SOIL	2X		✓	
19	L9906526-08 SOIL			✓	

Reviewed By: [signature] 6/28/99

Comments

√ = Compliant Analysis, Reanalysis complete
RR = Rerun

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

507 805

Date 6/26/94 Instrument ID HP5973 Data Subdirectory 062694 Column ID DB5

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17520	L9406586-09 SOIL	2X	BNA	√	
3m17521	L9406586-03 SOIL	2X		√	
3m17522	BakeOut	1Y		√	
3m17525 ~~23~~ 6	L9406447-07 SOIL			√	
3m17526	L9406447-08 SOIL			√	
3m17527	L9406511-01 SOIL			√	

Reviewed By: [signature] 6/27/94

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 806

Date 6/29/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HPMS3 Data Subdirectory 062999 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: ✓

Action Taken:

Returned to Control? Yes ___ No ___ Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17570	50 PPM DFTPP	X	DFTPP	✓	SU 42-10
71	50 PPM BN/A STD		BN/A	J	541-46-04
72	L9906573 - 14 SOIL			J	
73	L9906513 - 15 SOIL			✓	
74	W659856-04 L9906513-16 SOIL MS			J	
75	W659856-05 L9906513-17 SOIL MSD			✓	
76	L9906513-07 SOIL			✓	SS-1 LOW
77	" -10			✓	
78	-08			✓	SS-1 LOW
79	-10			✓	SS-1 LOW
80	-04	2X		✓	SS-1 LOW
81	-06	2X		✓	SS-1 LOW
82	-13	2X		✓	SS-1 LOW

Comments:

Reviewed By: 6/30/99

✓ = Compliant Analysis, Reanalysis complete

SMI = Sample matrix interference

Date 6/29/99 Instrument ID HPMS3 Data Subdirectory 062999 Column ID VDS

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17583	L9906513-09 SOIL	10X	BNA	√	SS-1 LOW
3m17584	L9906513-11 SOIL	10X	BNA	√	SS-1 LOW
3m17585	Bakeout	1x	BNA	√	

CLK 6/30/99

Reviewed By: [illegible]

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

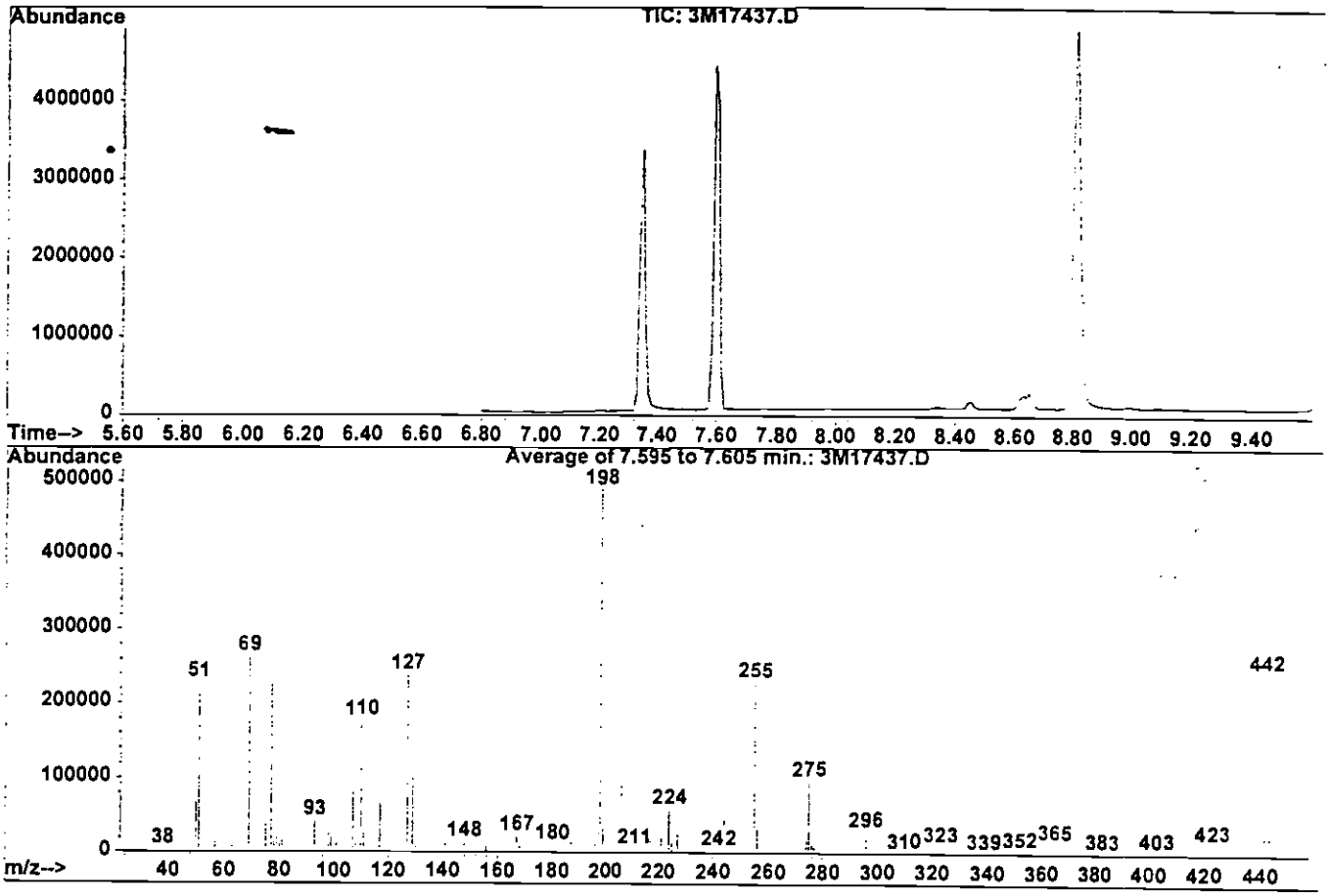
SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

507 807

507 808

Data File : C:\HPCHEM\1\DATA\062399\3M17437.D
Acq On : 23 Jun 1999 10:52
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.595 to 7.605 min.

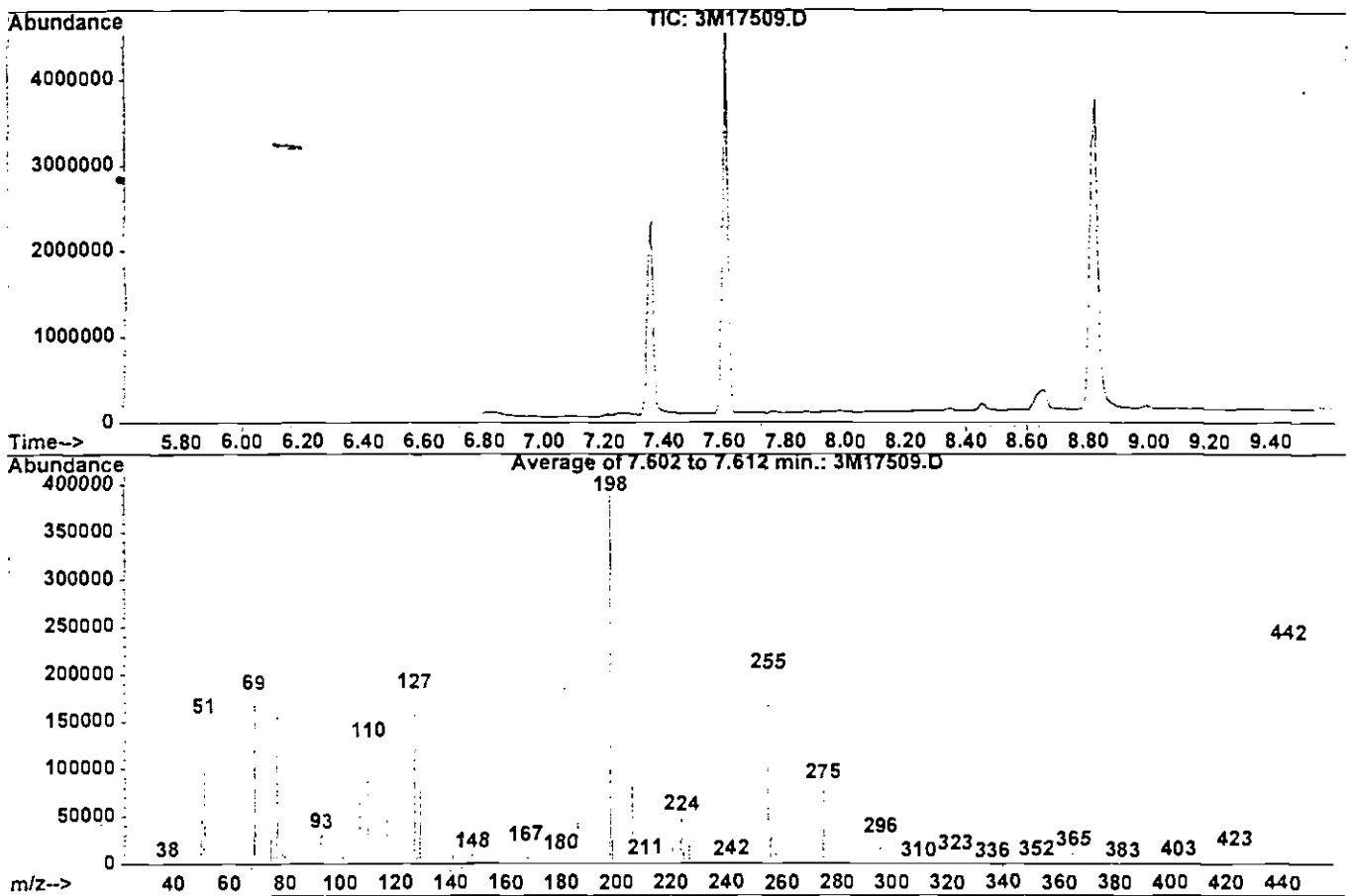
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	227072	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.2	261920	PASS
70	69	0.00	2	0.6	1502	PASS
127	198	40	60	48.4	238208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	492192	PASS
199	198	5	9	6.8	33280	PASS
275	198	10	30	19.5	96160	PASS
365	198	1	100	2.8	13820	PASS
441	443	0.01	100	77.6	36568	PASS
442	198	40	100	49.5	243612	PASS
443	442	17	23	19.4	47148	PASS

3M17437.D DFTPP.M Wed Jun 23 11:08:49 1999 HPMS3

507809

Data File : C:\HPCHEM\1\DATA\062699\3M17509.D
Acq On : 26 Jun 1999 10:18
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.602 to 7.612 min.

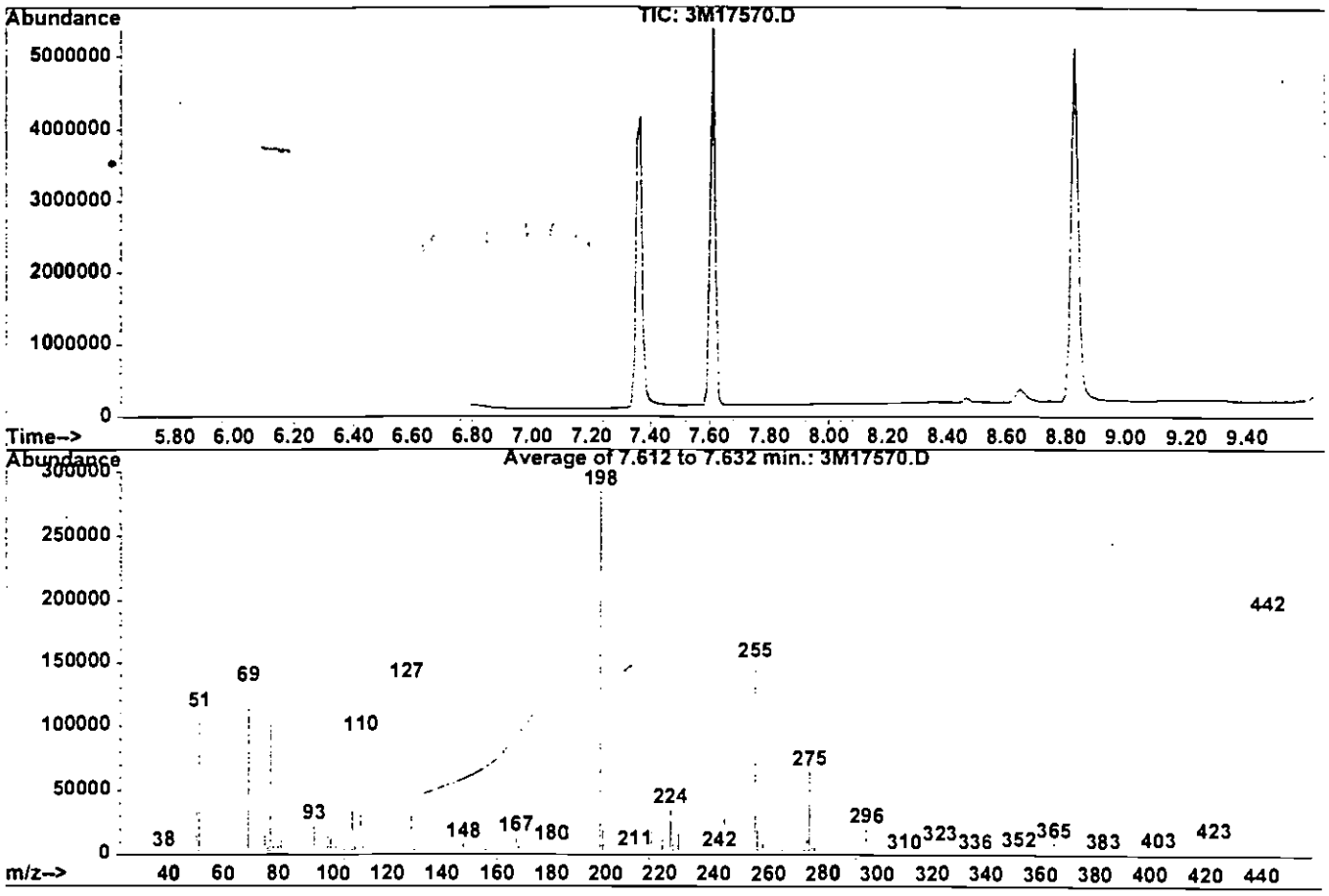
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.2	152648	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.6	177544	PASS
70	69	0.00	2	0.7	1185	PASS
127	198	40	60	45.8	178468	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	389248	PASS
199	198	5	9	6.6	25665	PASS
275	198	10	30	21.1	82308	PASS
365	198	1	100	3.2	12312	PASS
441	443	0.01	100	80.4	35272	PASS
442	198	40	100	59.1	229920	PASS
443	442	17	23	19.1	43880	PASS

3M17509.D DFTPP.M Mon Jun 28 08:14:19 1999 HPMS3

507 810

Data File : C:\HPCHEM\1\DATA\062999\3M17570.D
Acq On : 29 Jun 1999 13:34
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: CLK
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.612 to 7.632 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.4	110114	PASS
68	69	0.00	2	0.1	166	PASS
69	198	0.00	100	45.5	130529	PASS
70	69	0.00	2	0.8	1108	PASS
127	198	40	60	46.4	133006	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	286592	PASS
199	198	5	9	6.7	19177	PASS
275	198	10	30	22.8	65336	PASS
365	198	1	100	3.4	9681	PASS
441	443	0.01	100	3.7	1379	PASS
442	198	40	100	65.7	188176	PASS
443	442	17	23	19.9	37448	PASS

3M17570.D DFTPP.M Tue Jun 29 13:52:25 1999 HPMS3

507 811

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.67	1.13	67.7	34 - 152	
1,2-Dichlorobenzene	1.67	1.07	64.1	32 - 135	
1,3-Dichlorobenzene	1.67	1.07	64.1	26 - 135	
1,4-Dichlorobenzene	1.67	1.06	63.5	25 - 135	
2,4,5-Trichlorophenol	1.67	1.25	74.9	25 - 175	J
2,4,6-Trichlorophenol	1.67	1.17	70.1	29 - 138	
2,4-Dichlorophenol	1.67	1.16	69.5	36 - 135	
2,4-Dimethylphenol	1.67	1.27	76	35 - 149	
2,4-Dinitrophenol	1.67	1.32	79	25 - 161	J
2,4-Dinitrotoluene	1.67	1.39	83.2	29 - 149	
2,6-Dinitrotoluene	1.67	1.28	76.6	41 - 135	
2-Chloronaphthalene	1.67	1.18	70.7	50 - 135	
2-Chlorophenol	1.67	1.06	63.5	31 - 135	
2-Methylnaphthalene	1.67	1.12	67.1	31 - 135	
2-Methylphenol	1.67	1.12	67.1	25 - 135	
2-Nitroaniline	1.67	1.25	74.9	40 - 135	J
2-Nitrophenol	1.67	1.07	64.1	34 - 135	
3,3'-Dichlorobenzidine	1.67	1.27	76	25 - 175	J
3-Nitroaniline	1.67	1.24	74.3	41 - 135	J
4,6-Dinitro-2-methylphenol	1.67	1.49	89.2	25 - 144	J
4-Bromophenyl-phenylether	1.67	1.39	83.2	43 - 137	
4-Chloro-3-methylphenol	1.67	1.27	76	34 - 135	J
4-Chloroaniline	1.67	1.07	64.1	35 - 146	J
4-Chlorophenyl-phenyl ether	1.67	1.29	77.2	41 - 142	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	1.67	1.14	68.3	25 - 135	
4-Nitroaniline	1.67	1.61	96.4	30 - 153	
Acenaphthene	1.67	1.29	77.2	39 - 135	
Acenaphthylene	1.67	1.24	74.3	37 - 135	
Anthracene	1.67	1.38	82.6	35 - 175	
Benzo(a)anthracene	1.67	1.50	89.8	41 - 143	
Benzo(a)pyrene	1.67	1.47	88	31 - 135	
Benzo(b)fluoranthene	1.67	1.37	82	27 - 135	
Benzo(g,h,i)Perylene	1.67	1.45	86.8	25 - 159	
Benzoic acid	1.67	0.622	37.2	25 - 172	J
Benzyl alcohol	1.67	1.12	67.1	25 - 135	J
Bis(2-Chloroethoxy)Methane	1.67	1.15	68.9	39 - 135	
Bis(2-Chloroethyl)ether	1.67	1.06	63.5	34 - 135	
Butylbenzylphthalate	1.67	1.44	86.2	25 - 135	
Chrysene	1.67	1.52	91	45 - 143	
Di-N-Butylphthalate	1.67	1.45	86.8	25 - 136	
Di-n-octylphthalate	1.67	1.47	88	28 - 137	
Dibenzo(a,h)Anthracene	1.67	1.55	92.8	40 - 135	
Dibenzofuran	1.67	1.26	75.4	42 - 135	
Diethylphthalate	1.67	1.40	83.8	27 - 135	
Dimethylphthalate	1.67	1.31	78.4	25 - 175	
Fluoranthene	1.67	1.52	91	37 - 135	
Fluorene	1.67	1.20	71.9	38 - 149	
Hexachlorobenzene	1.67	1.45	86.8	36 - 143	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60163

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59856-03

Units: mg/kg

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	1.67	1.18	70.7	25 - 135	
Hexachlorocyclopentadiene	1.67	0.970	58.1	31 - 135	
Hexachloroethane	1.67	1.10	65.9	25 - 163	
Indeno(1,2,3-cd)pyrene	1.67	1.48	88.6	25 - 170	
Isophorone	1.67	1.24	74.3	25 - 175	
N-Nitroso-di-n-propylamine	1.67	1.13	67.7	27 - 135	
N-Nitrosodiphenylamine	1.67	1.34	80.2	25 - 135	
Naphthalene	1.67	1.05	62.9	40 - 135	
Nitrobenzene	1.67	1.09	65.3	36 - 143	
Pentachlorophenol	1.67	1.40	83.8	38 - 146	J
Phenanthrene	1.67	1.35	80.8	44 - 135	
Phenol	1.67	1.05	62.9	25 - 135	
Pyrene	1.67	1.48	88.6	37 - 146	
bis(2-Chloroisopropyl)ether	1.67	1.02	61.1	26 - 175	
bis(2-Ethylhexyl)phthalate	1.67	1.40	83.8	25 - 139	
p-Nitrophenol	1.67	1.37	82	25 - 141	J

Comments:

AFCEE

ORGANIC ANALYSES DATA PACKAGE

507 814

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SUN0100BE	L9906513-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 13-JUL-99

Title: Laboratory Manager

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)		Pyridine	0.854	0.741	0.842	0.721	0.737	0.758	0.775	7.40
3)		n-Nitrosodimethylam	0.419	0.401	0.446	0.386	0.391	0.386	0.405	5.90
4)	S	2-Fluorophenol	1.839	1.748	1.878	1.702	1.725	1.699	1.765	4.26
5)		Aniline	2.114	1.747	1.848	1.536	1.456	1.421	1.687	15.88
6)	S	Phenol-d5	1.983	1.856	1.990	1.732	1.731	1.712	1.834	7.03
7)	C	Phenol	1.798	1.650	1.748	1.511	1.491	1.475	1.612	8.69
8)		bis(2-Chloroethyl)e	1.471	1.330	1.390	1.189	1.233	1.150	1.294	9.60
9)		2-Chlorophenol	1.645	1.512	1.567	1.388	1.364	1.356	1.472	8.20
10)		1,3-Dichlorobenzene	1.650	1.529	1.547	1.364	1.331	1.296	1.453	9.76
11)	C	1,4-Dichlorobenzene	1.717	1.551	1.580	1.371	1.332	1.262	1.469	11.86
12)		Benzyl Alcohol	1.041	1.013	1.091	0.975	0.977	0.968	1.011	4.77
13)	C	1,2-Dichlorobenzene	1.610	1.482	1.496	1.304	1.250	1.188	1.388	11.88
14)		2-Methylphenol	1.277	1.198	1.244	1.079	1.075	1.051	1.154	8.46
15)		bis(2-Chloroisoprop	1.727	1.536	1.522	1.244	1.190	1.136	1.392	16.94
16)		4-Methylphenol	1.865	1.738	1.832	1.596	1.582	1.560	1.695	7.94
17)	P	n-Nitrosodipropylam	0.679	0.621	0.642	0.555	0.555	0.546	0.600	9.2
18)		Hexachloroethane	0.835	0.778	0.793	0.697	0.678	0.660	0.740	9.6
19)	I	Naphthalene-d8	ISTD							
20)	S	Nitrobenzene-d5	0.449	0.410	0.434	0.379	0.371	0.365	0.401	8.77
21)		Nitrobenzene	0.356	0.317	0.331	0.288	0.280	0.275	0.308	10.49
22)		Isophorone	0.685	0.618	0.641	0.555	0.539	0.527	0.594	10.68
23)	C	2-Nitrophenol	0.241	0.238	0.255	0.213	0.199	0.189	0.223	11.72
24)		2,4-Dimethylphenol	0.358	0.329	0.350	0.306	0.280	0.275	0.316	11.10
25)		bis(2-Chloroethoxy)	0.455	0.422	0.440	0.369	0.355	0.347	0.398	11.75
26)		Benzoic Acid		0.142	0.199	0.203	0.213	0.218	0.195	15.73
27)	C	2,4-Dichlorophenol	0.318	0.302	0.310	0.279	0.266	0.261	0.289	8.24
28)		1,2,4-Trichlorobenz	0.338	0.309	0.317	0.282	0.267	0.258	0.295	10.57
29)		Naphthalene	1.172	1.076	1.083	0.912	0.844	0.799	0.981	15.30
30)		4-Chloroaniline	0.601	0.566	0.554	0.486	0.457	0.428	0.515	13.25
31)	C	Hexachlorobutadiene	0.187	0.174	0.181	0.163	0.153	0.148	0.168	9.34
32)	C	4-Chloro-3-Methylph	0.392	0.373	0.387	0.342	0.331	0.315	0.357	8.88
33)		2-Methylnaphthalene	0.677	0.631	0.616	0.516	0.480	0.443	0.560	16.75
34)	I	Acenaphthene-d10	ISTD							
35)	P	Hexachlorocyclopent	0.321	0.372	0.429	0.393	0.399	0.378	0.382	9.45
36)	C	2,4,6-Trichlorophen	0.415	0.417	0.444	0.402	0.410	0.381	0.412	4.98
37)		2,4,5-Trichlorophen	0.468	0.445	0.489	0.425	0.410	0.396	0.439	8.04
38)	S	2-Fluorobiphenyl	1.545	1.416	1.462	1.218	1.124	1.070	1.306	14.95
39)		2-Chloronaphthalene	1.371	1.255	1.288	1.107	1.070	0.992	1.181	12.36
40)		2-Nitroaniline	0.355	0.337	0.369	0.321	0.316	0.312	0.335	6.8
41)		Dimethylphthalate	1.589	1.475	1.528	1.367	1.304	1.255	1.420	9.2

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

		Compound	4	20	50	80	100	120	Avg.	%RSD
42)		Acenaphthylene	2.222	2.080	2.150	1.832	1.711	1.600	1.933	13.13
43)		2,6-Dinitrotoluene	0.374	0.377	0.407	0.379	0.380	0.360	0.379	4.09
44)		3-Nitroaniline	0.551	0.557	0.595	0.544	0.539	0.522	0.551	4.47
45)	C	Acenaphthene	1.266	1.206	1.255	1.068	0.985	0.901	1.114	13.64
46)	P	2,4-Dinitrophenol		0.177	0.235	0.233	0.229	0.215	0.218	11.01
47)	P	4-Nitrophenol		0.248	0.281	0.256	0.249	0.238	0.254	6.41
48)		Dibenzofuran	1.842	1.739	1.780	1.516	1.435	1.355	1.611	12.55
49)		2,4-Dinitrotoluene	0.479	0.508	0.550	0.504	0.490	0.487	0.503	5.01
50)		Diethylphthalate	1.640	1.538	1.538	1.350	1.271	1.214	1.425	11.97
51)		Fluorene	1.476	1.324	1.310	1.073	1.007	0.896	1.181	18.82
52)		4-Chlorophenyl Phen	0.643	0.610	0.632	0.559	0.533	0.491	0.578	10.45
53)		4-Nitroaniline	0.497	0.428	0.366	0.278	0.250	0.229	0.341	31.36
54)		1,2-Diphenylhydrazi	1.420	1.279	1.315	1.140	1.096	1.091	1.224	11.02
55)	S	2,4,6-Tribromopheno	0.230	0.231	0.261	0.253	0.246	0.246	0.244	4.98
56)	I	Phenanthrene-d10	----------	ISTD	----------					
57)		4,6-Dinitro-2-Methy		0.198	0.216	0.194	0.186	0.178	0.195	7.39
58)	C	n-Nitrosodiphenylam	0.634	0.572	0.572	0.468	0.434	0.381	0.510	19.11
59)		4-Bromophenyl Pheny	0.210	0.205	0.212	0.187	0.179	0.170	0.194	9.18
60)		Hexachlorobenzene	0.281	0.271	0.280	0.244	0.221	0.215	0.252	11.72
61)	C	Pentachlorophenol		0.152	0.173	0.164	0.160	0.159	0.161	4.92
62)		Phenanthrene	1.351	1.226	1.162	0.946	0.904	0.805	1.066	19.89
63)		Anthracene	1.248	1.172	1.177	0.933	0.829	0.793	1.025	19.27
64)		Carbazole	1.305	1.149	1.075	0.888	0.808	0.743	0.995	21.84
65)		Di-n-Butyl Phthalat	1.909	1.662	1.562	1.234	1.053	1.006	1.404	25.81
66)	C	Fluoranthene	1.289	1.215	1.158	1.004	0.961	0.876	1.084	14.84
67)	I	Chrysene-d12	----------	ISTD	----------					
68)		Benzidine		0.115	0.045	0.030	0.035	0.026	0.050	73.67
69)		Pyrene	1.508	1.392	1.483	1.140	1.066	1.005	1.266	17.50
70)	S	p-Terphenyl-d14	1.073	1.007	1.086	0.840	0.776	0.719	0.917	17.31
71)		Butyl Benzyl Phthal	0.983	0.906	0.943	0.745	0.705	0.670	0.825	16.27
72)		Benzo[a]anthracene	1.280	1.194	1.298	1.128	1.109	1.075	1.181	7.85
73)		3,3'-Dichlorobenzid	0.482	0.379	0.316	0.291	0.306	0.321	0.349	20.48
74)		Chrysene	1.179	1.137	1.241	1.065	1.026	0.993	1.107	8.61
75)		bis(2-Ethylhexyl)ph	1.367	1.235	1.275	1.013	0.962	0.917	1.128	16.61
76)	I	Perylene-d12	----------	ISTD	----------					
77)	C	Di-n-Octyl Phthalat	2.269	2.127	2.309	1.890	1.793	1.750	2.023	12.08
78)		Benzo[b]fluoranthen	1.457	1.270	1.466	1.342	1.324	1.314	1.362	5.91
79)		Benzo[k]fluoranthen	1.333	1.248	1.315	1.113	1.053	1.019	1.180	11.56
80)	C	Benzo[a]pyrene	1.204	1.179	1.293	1.154	1.139	1.123	1.182	5.19
81)		Indeno[1,2,3-cd]pyr	1.453	1.446	1.609	1.458	1.477	1.482	1.487	4.10
82)		Dibenz[ah]anthracen	1.145	1.167	1.308	1.179	1.187	1.188	1.195	4.80

(#) = Out of Range

Response Factor Report HPMS3

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Wed Jun 23 14:49:45 1999
Response via : Initial Calibration

Calibration Files
4 =3M17439.D 20 =3M17440.D 50 =3M17438.D
80 =3M17441.D 100 =3M17442.D 120 =3M17443.D

	Compound	4	20	50	80	100	120	Avg	%RSD
83)	Benzo[ghi]perylene	1.276	1.275	1.427	1.329	1.363	1.384	1.342	4.53

(#) = Out of Range

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: 8270C
AAB#: WG60037
Lab Name: Kemron Environmental Services
Contract #: F41624-95-D-8003-0023
Instrument ID: HPMS3
Date of Initial Calibration: 23-Jun-99
2nd Source ID: ALT HPMS3 23-JUN-1999

Analyte	% D	Q
n-Nitroso-di-n-propylamine *	2.32	
Hexachlorocyclopentadiene *	7.74	
2,4-Dinitrophenol *	36.70	*
4-Nitrophenol *	8.76	
Phenol #	0.70	
1,4-Dichlorobenzene #	1.68	
2-Nitrophenol #	8.04	
2,4-Dichlorophenol #	6.38	
Hexachlorobutadiene #	7.92	
4-Chloro-3-methyl phenol #	6.46	
2,4,6-Trichlorophenol #	11.00	
Acenaphthene #	10.92	
n-Nitrosodiphenylamine #	3.16	
Pentachlorophenol #	3.94	
Fluoranthene #	4.56	
Di-n-octylphthalate #	0.34	
Benzo(a)pyrene #	5.80	
1,2,4-Trichlorobenzene	6.16	
1,2-Dichlorobenzene	0.94	
1,3-Dichlorobenzene	1.76	
2,4-Dinitrotoluene	8.54	
2,6-Dinitrotoluene	1.92	
2-Chloronaphthalene	8.94	
2-Methylnaphthalene	1.04	
2-Nitroanitine	2.14	
3-Nitroaniline	6.30	
3,3-Dichlorobenzidine	3.04	
4-Bromophenyl phenyl ether	16.14	
4-Chloroaniline	10.18	
4-Chlorophenyl phenyl ether	8.96	
4-Nitroaniline	27.56	*
Acenaphthylene	1.94	
Anthracene	4.84	
Benz(a)anthracene	4.62	
Benzo(b)fluoranthene	2.40	
Benzo(g,h,i)perylene	1.68	
Benzyl alcohol	3.34	
Bis (2-chloroethoxy)methane	3.66	
Bis (2-chloroethyl) ether	5.74	
Bis (2-chloroisopropyl) ether	5.04	
Bis (2-ethylhexyl) phthalate	5.18	
Butyl Benzyl Phthalate	7.60	
Chrysene	3.82	
Di-n-butylphthalate	0.76	
Dibenz (a,h) Anthracene	6.94	
Dibenzofuran	7.96	
Diethyl phthalate	7.98	
Dimethyl phthalate	5.66	
Fluorene	1.16	
Hexachlorobenzene	6.60	
Hexachloroethane	0.82	
Indeno(1,2,3-cd)pyrene	4.52	
Isophorone	0.90	
n-Nitrosodimethylamine	39.00	*
Naphthalene	2.34	
Nitrobenzene	2.68	
Phenanthrene	6.76	
Pyrene	4.40	
2,4,5-Trichlorophenol	5.40	
2,4-Dimethylphenol	0.06	
2-Chlorophenol	2.74	
2-Methylphenol	2.24	
4,6-Dinitro-2-methylphenol	15.66	
4-Methylphenol	5.34	
Benzoic acid	11.96	

Comments:

Data File : C:\HPCHEM\1\DATA\062499\3M17471.D
Acq On : 24 Jun 1999 11:05
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Thu Jun 24 14:58:45 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	65	0.00
2		Pyridine	50.000	48.516	3.0	58	0.00
3		n-Nitrosodimethylamine	50.000	57.389	-14.8	68	0.00
4	S	2-Fluorophenol	50.000	48.992	2.0	60	0.02
5		Aniline	50.000	57.472	-14.9	68	0.00
6	S	Phenol-d5	50.000	51.586	-3.2	62	0.02
7	C	Phenol	50.000	49.895	0.2	60	0.00
8		bis(2-Chloroethyl)ether	50.000	53.233	-6.5	64	0.00
9		2-Chlorophenol	50.000	54.033	-8.1	66	0.00
10		1,3-Dichlorobenzene	50.000	54.106	-8.2	66	0.00
11	C	1,4-Dichlorobenzene	50.000	54.870	-9.7	66	0.00
12		Benzyl Alcohol	50.000	51.062	-2.1	62	0.00
13	C	1,2-Dichlorobenzene	50.000	55.788	-11.6	67	0.00
14		2-Methylphenol	50.000	54.267	-8.5	65	0.00
15		bis(2-Chloroisopropyl)ether	50.000	60.417	-20.8	71	0.00
16		4-Methylphenol	50.000	53.799	-7.6	65	0.00
17	P	n-Nitrosodipropylamine	50.000	54.757	-9.5	67	0.00
18		Hexachloroethane	50.000	56.197	-12.4	68	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	71	0.00
20	S	Nitrobenzene-d5	50.000	50.307	-0.6	66	0.00
21		Nitrobenzene	50.000	49.634	0.7	65	0.00
22		Isophorone	50.000	50.430	-0.9	66	0.00
23	C	2-Nitrophenol	50.000	56.201	-12.4	69	0.00
24		2,4-Dimethylphenol	50.000	56.188	-12.4	72	0.00
25		bis(2-Chloroethoxy)methane	50.000	52.070	-4.1	67	0.00
26		Benzoic Acid	50.000	48.746	2.5	73	0.00
27	C	2,4-Dichlorophenol	50.000	50.802	-1.6	67	0.00
28		1,2,4-Trichlorobenzene	50.000	49.352	1.3	65	0.00
29		Naphthalene	50.000	53.896	-7.8	72	0.00
30		4-Chloroaniline	50.000	53.510	-7.0	70	0.00
31	C	Hexachlorobutadiene	50.000	48.860	2.3	64	0.00
32	C	4-Chloro-3-Methylphenol	50.000	50.644	-1.3	66	0.00
33		2-Methylnaphthalene	50.000	52.673	-5.3	71	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	74	0.00
35	P	Hexachlorocyclopentadiene	50.000	48.469	3.1	64	0.00
36	C	2,4,6-Trichlorophenol	50.000	48.314	3.4	66	0.00
37		2,4,5-Trichlorophenol	50.000	49.602	0.8	66	0.00
38	S	2-Fluorobiphenyl	50.000	50.184	-0.4	70	0.00
39		2-Chloronaphthalene	50.000	52.506	-5.0	71	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\062499\3M17471.D
Acq On : 24 Jun 1999 11:05
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Thu Jun 24 14:58:45 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	51.051	-2.1	69	0.00
41		Dimethylphthalate	50.000	50.519	-1.0	69	0.00
42		Acenaphthylene	50.000	54.528	-9.1	73	0.00
43		2,6-Dinitrotoluene	50.000	49.680	0.6	69	0.00
44		3-Nitroaniline	50.000	50.162	-0.3	69	0.00
45	C	Acenaphthene	50.000	55.953	-11.9	74	0.00
46	P	2,4-Dinitrophenol	50.000	54.139	-8.3	74	0.00
47	P	4-Nitrophenol	50.000	53.956	-7.9	72	0.00
48		Dibenzofuran	50.000	53.217	-6.4	71	0.00
49		2,4-Dinitrotoluene	50.000	49.171	1.7	67	0.00
50		Diethylphthalate	50.000	53.742	-7.5	74	0.00
51		Fluorene	50.000	52.254	-4.5	74	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	50.487	-1.0	68	0.00
53		4-Nitroaniline	50.000	61.215	-22.4	81	0.00
54		1,2-Diphenylhydrazine	50.000	53.881	-7.8	74	0.00
[redacted]	S	2,4,6-Tribromophenol	50.000	45.877	8.2	64	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	72	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	51.753	-3.5	68	0.00
58	C	n-Nitrosodiphenylamine	50.000	52.308	-4.6	72	0.00
59		4-Bromophenyl Phenyl Ether	50.000	50.853	-1.7	67	0.00
60		Hexachlorobenzene	50.000	50.707	-1.4	66	0.00
61	C	Pentachlorophenol	50.000	48.771	2.5	66	0.00
62		Phenanthrene	50.000	53.728	-7.5	74	0.00
63		Anthracene	50.000	56.919	-13.8	74	0.00
64		Carbazole	50.000	47.303	5.4	67	0.00
65		Di-n-Butyl Phthalate	50.000	63.112	-26.2	80	0.00
66	C	Fluoranthene	50.000	57.131	-14.3	77	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	78	0.00
68		Benzidine	50.000	178.097	-256.2#	311	0.00
69		Pyrene	50.000	54.156	-8.3	75	0.00
70	S	p-Terphenyl-d14	50.000	53.701	-7.4	75	0.00
71		Butyl Benzyl Phthalate	50.000	56.627	-13.3	79	0.00
72		Benzo[a]anthracene	50.000	52.240	-4.5	74	0.02
73		3,3'-Dichlorobenzidine	50.000	47.429	5.1	71	0.00
74		Chrysene	50.000	53.088	-6.2	74	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	56.135	-12.3	79	0.00
76	I	Perylene-d12	40.000	40.000	0.0	74	0.02
[redacted]	C	Di-n-Octyl Phthalate	50.000	57.967	-15.9	76	0.00

(#) = Out of Range

507 820 207

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062499\3M17471.D
Acq On : 24 Jun 1999 11:05
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Thu Jun 24 14:58:45 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	49.992	0.0	69	0.00
79		Benzo[k]fluoranthene	50.000	55.005	-10.0	73	0.00
80	C	Benzo[a]pyrene	50.000	53.217	-6.4	72	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	50.971	-1.9	70	0.00
82		Dibenz[ah]anthracene	50.000	51.519	-3.0	70	0.00
83		Benzo[ghi]perylene	50.000	49.420	1.2	69	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D Vial: 22
Acq On : 28 Jun 1999 22:49 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.02
2		Pyridine	50.000	49.408	1.2	102	0.03
3		n-Nitrosodimethylamine	50.000	50.184	-0.4	102	0.03
4	S	2-Fluorophenol	50.000	52.591	-5.2	111	0.04
5		Aniline	50.000	54.938	-9.9	113	0.03
6	S	Phenol-d5	50.000	52.702	-5.4	109	0.04
7	C	Phenol	50.000	52.947	-5.9	109	0.04
8		bis(2-Chloroethyl)ether	50.000	54.326	-8.7	113	0.02
9		2-Chlorophenol	50.000	53.086	-6.2	112	0.03
10		1,3-Dichlorobenzene	50.000	53.173	-6.3	112	0.02
11	C	1,4-Dichlorobenzene	50.000	53.189	-6.4	111	0.02
12		Benzyl Alcohol	50.000	53.056	-6.1	110	0.03
13	C	1,2-Dichlorobenzene	50.000	54.199	-8.4	113	0.02
14		2-Methylphenol	50.000	52.978	-6.0	110	0.02
		bis(2-Chloroisopropyl)ether	50.000	52.503	-5.0	109	0.02
		4-Methylphenol	50.000	53.328	-6.7	110	0.03
17	P	n-Nitrosodipropylamine	50.000	54.306	-8.6	114	0.02
18		Hexachloroethane	50.000	52.542	-5.1	110	0.02
19	I	Naphthalene-d8	40.000	40.000	0.0	111	0.02
20	S	Nitrobenzene-d5	50.000	54.437	-8.9	111	0.02
21		Nitrobenzene	50.000	53.674	-7.3	110	0.02
22		Isophorone	50.000	54.289	-8.6	111	0.02
23	C	2-Nitrophenol	50.000	54.710	-9.4	106	0.02
24		2,4-Dimethylphenol	50.000	54.701	-9.4	109	0.02
25		bis(2-Chloroethoxy)methane	50.000	53.689	-7.4	107	0.02
26		Benzoic Acid	50.000	53.553	-7.1	126	0.03
27	C	2,4-Dichlorophenol	50.000	53.831	-7.7	111	0.02
28		1,2,4-Trichlorobenzene	50.000	53.185	-6.4	110	0.02
29		Naphthalene	50.000	51.713	-3.4	108	0.02
30		4-Chloroaniline	50.000	54.422	-8.8	112	0.00
31	C	Hexachlorobutadiene	50.000	55.078	-10.2	113	0.02
32	C	4-Chloro-3-Methylphenol	50.000	54.784	-9.6	112	0.02
33		2-Methylnaphthalene	50.000	51.871	-3.7	109	0.02
34	I	Acenaphthene-d10	40.000	40.000	0.0	116	0.02
35	P	Hexachlorocyclopentadiene	50.000	48.557	2.9	101	0.02
36	C	2,4,6-Trichlorophenol	50.000	51.639	-3.3	111	0.02
37		2,4,5-Trichlorophenol	50.000	51.563	-3.1	108	0.03
38	S	2-Fluorobiphenyl	50.000	49.560	0.9	109	0.00
		2-Chloronaphthalene	50.000	52.111	-4.2	111	0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D
Acq On : 28 Jun 1999 22:49
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 22
Operator: CLK
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	52.024	-4.0	110	0.02
41		Dimethylphthalate	50.000	51.872	-3.7	112	0.00
42		Acenaphthylene	50.000	52.730	-5.5	110	0.00
43		2,6-Dinitrotoluene	50.000	52.219	-4.4	113	0.02
44		3-Nitroaniline	50.000	51.847	-3.7	112	0.02
45	C	Acenaphthene	50.000	52.552	-5.1	109	0.02
46	P	2,4-Dinitrophenol	50.000	51.674	-3.3	111	0.02
47	P	4-Nitrophenol	50.000	50.871	-1.7	107	0.02
48		Dibenzofuran	50.000	52.396	-4.8	110	0.02
49		2,4-Dinitrotoluene	50.000	52.166	-4.3	111	0.02
50		Diethylphthalate	50.000	51.985	-4.0	112	0.02
51		Fluorene	50.000	49.457	1.1	111	0.02
52		4-Chlorophenyl Phenyl Ether	50.000	52.827	-5.7	112	0.02
53		4-Nitroaniline	50.000	54.421	-8.8	117	0.03
54		1,2-Diphenylhydrazine	50.000	50.003	-0.0	108	0.02
55	S	2,4,6-Tribromophenol	50.000	52.369	-4.7	114	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	111	0.02
57		4,6-Dinitro-2-Methylphenol	50.000	54.225	-8.5	108	0.02
58	C	n-Nitrosodiphenylamine	50.000	54.066	-8.1	113	0.02
59		4-Bromophenyl Phenyl Ether	50.000	55.652	-11.3	113	0.02
60		Hexachlorobenzene	50.000	56.607	-13.2	113	0.00
61	C	Pentachlorophenol	50.000	55.324	-10.6	114	0.00
62		Phenanthrene	50.000	54.176	-8.4	113	0.02
63		Anthracene	50.000	50.156	-0.3	103	0.02
64		Carbazole	50.000	44.995	10.0	98	0.00
65		Di-n-Butyl Phthalate	50.000	49.141	1.7	102	0.00
66	C	Fluoranthene	50.000	53.236	-6.5	110	0.02
67	I	Chrysene-d12	40.000	40.000	0.0	119	0.03
68		Benzidine	50.000	145.145	-190.3#	388	0.02
69		Pyrene	50.000	49.784	0.4	108	0.02
70	S	p-Terphenyl-d14	50.000	49.100	1.8	108	0.02
71		Butyl Benzyl Phthalate	50.000	47.986	4.0	106	0.02
72		Benzo[a]anthracene	50.000	51.686	-3.4	112	0.03
73		3,3'-Dichlorobenzidine	50.000	56.418	-12.8	130	0.03
74		Chrysene	50.000	51.917	-3.8	110	0.03
75		bis(2-Ethylhexyl)phthalate	50.000	46.699	6.6	104	0.02
76	I	Perylene-d12	40.000	40.000	0.0	115	0.05
77	C	Di-n-Octyl Phthalate	50.000	51.394	-2.8	103	0.03

(#) = Out of Range

Evaluate CC

Data File : C:\HPCHEM\1\DATA\062899\3M17549.D
Acq On : 28 Jun 1999 22:49
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 22
Operator: CLK
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 LIST/INITIAL CALIBRATION 06/23/99
Last Update : Tue Jun 29 09:59:33 1999
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.734	-5.5	112	0.04
79		Benzo[k]fluoranthene	50.000	51.420	-2.8	106	0.04
80	C	Benzo[a]pyrene	50.000	51.808	-3.6	109	0.04
81		Indeno[1,2,3-cd]pyrene	50.000	52.750	-5.5	112	0.06
82		Dibenz[ah]anthracene	50.000	53.185	-6.4	112	0.07
83		Benzo[ghi]perylene	50.000	51.561	-3.1	111	0.08

507 825

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ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG59867-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	2.0	5.0	
1,2-Dichlorobenzene	1.7	5.0	
1,3-Dichlorobenzene	1.8	5.0	
1,4-Dichlorobenzene	1.7	5.0	
2,4,5-Trichlorophenol	1.8	25	
2,4,6-Trichlorophenol	1.7	5.0	
2,4-Dichlorophenol	1.9	5.0	
2,4-Dimethylphenol	2.0	5.0	
2,4-Dinitrophenol	9.0	25	
2,4-Dinitrotoluene	1.3	5.0	
2,6-Dinitrotoluene	1.5	5.0	
2-Chloronaphthalene	1.8	5.0	
2-Chlorophenol	1.5	5.0	
2-Methylnaphthalene	1.8	5.0	
2-Methylphenol	1.7	5.0	
2-Nitroaniline	1.4	25	
2-Nitrophenol	1.5	5.0	
3,3'-Dichlorobenzidine	4.3	10	
3-Nitroaniline	1.6	25	
4,6-Dinitro-2-methylphenol	1.1	25	
4-Bromophenyl-phenylether	1.4	5.0	
4-Chloro-3-methylphenol	1.7	10	
4-Chloroaniline	1.9	10	
4-Chlorophenyl-phenyl ether	1.7	5.0	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG59867-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
4-Methylphenol	1.5	5.0	
4-Nitroaniline	1.8	25	
Acenaphthene	1.5	5.0	
Acenaphthylene	1.6	5.0	
Anthracene	1.2	5.0	
Benzo(a)anthracene	1.7	5.0	
Benzo(a)pyrene	1.8	5.0	
Benzo(b)fluoranthene	1.7	5.0	
Benzo(g,h,i)Perylene	3.2	5.0	
Benzoic acid	4.7	25	
Benzyl alcohol	1.5	10	
Bis(2-Chloroethoxy)Methane	1.5	5.0	
Bis(2-Chloroethyl)ether	1.4	5.0	
Butylbenzylphthalate	2.1	5.0	
Chrysene	2.5	5.0	
Di-N-Butylphthalate	1.8	5.0	
Di-n-octylphthalate	1.9	5.0	
Dibenzo(a,h)Anthracene	3.5	5.0	
Dibenzofuran	1.7	5.0	
Diethylphthalate	1.4	5.0	
Dimethylphthalate	1.7	5.0	
Fluoranthene	1.7	5.0	
Fluorene	1.7	5.0	
Hexachlorobenzene	1.7	5.0	

Comments:

507 827

AFCEE

ORGANIC ANALYSES DATA SHEET 6

BLANK

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

Units: ug/L

Method Blank ID: WG59867-02

Initial Calibration HPMS3 23-JUN-1999

Analyte	Method Blank	RL	Q
Hexachlorobutadiene	2.4	5.0	
Hexachlorocyclopentadiene	1.2	5.0	
Hexachloroethane	2.0	5.0	
Indeno(1,2,3-cd)pyrene	2.2	5.0	
Isophorone	1.7	5.0	
N-Nitroso-di-n-propylamine	1.5	5.0	
N-Nitrosodiphenylamine	1.4	5.0	
Naphthalene	2.8	5.0	
Nitrobenzene	1.5	5.0	
Pentachlorophenol	1.7	25	
Phenanthrene	1.3	5.0	
Phenol	2.2	5.0	
Pyrene	1.6	5.0	
bis(2-Chloroisopropyl)ether	1.5	5.0	
bis(2-Ethylhexyl)phthalate	2.1	5.0	
p-Nitrophenol	1.6	25	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59867-03

Units: ug/L

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	50	25.2	50.4	44 - 142	
1,2-Dichlorobenzene	50	27.6	55.2	42 - 155	
1,3-Dichlorobenzene	50	26.3	52.6	36 - 125	
1,4-Dichlorobenzene	50	26.5	53	30 - 125	
2,4,5-Trichlorophenol	50	47.7	95.4	25 - 175	
2,4,6-Trichlorophenol	50	43.3	86.6	39 - 128	
2,4-Dichlorophenol	50	34.3	68.6	46 - 125	
2,4-Dimethylphenol	50	38.3	76.6	45 - 139	
2,4-Dinitrophenol	50	57.1	114.2	30 - 151	
2,4-Dinitrotoluene	50	52.1	104.2	39 - 139	
2,6-Dinitrotoluene	50	45.1	90.2	51 - 125	
2-Chloronaphthalene	50	32.0	64	60 - 125	
2-Chlorophenol	50	31.3	62.6	41 - 125	
2-Methylnaphthalene	50	30.0	60	41 - 125	
2-Methylphenol	50	30.5	61	25 - 125	
2-Nitroaniline	50	52.7	105.4	50 - 125	
2-Nitrophenol	50	30.1	60.2	44 - 125	
3,3'-Dichlorobenzidine	50	82.2	164.4	29 - 175	
3-Nitroaniline	50	47.9	95.8	51 - 125	
4,6-Dinitro-2-methylphenol	50	56.2	112.4	26 - 134	
4-Bromophenyl-phenylether	50	48.7	97.4	53 - 127	
4-Chloro-3-methylphenol	50	50.5	101	44 - 125	
4-Chloroaniline	50	36.3	72.6	45 - 136	
4-Chlorophenyl-phenyl ether	50	44.3	88.6	51 - 132	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59867-03

Units: ug/L

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
4-Methylphenol	50	29.5	59	33 - 125	
4-Nitroaniline	50	98.4	196.8	40 - 143	*
Acenaphthene	50	42.5	85	49 - 125	
Acenaphthylene	50	38.5	77	47 - 125	
Anthracene	50	52.9	105.8	45 - 165	
Benzo(a)anthracene	50	59.9	119.8	51 - 133	
Benzo(a)pyrene	50	58.4	116.8	41 - 125	
Benzo(b)fluoranthene	50	57.9	115.8	37 - 125	
Benzo(g,h,i)Perylene	50	56.4	112.8	34 - 149	
Benzoic acid	50	8.19	16.4	25 - 162	*
Benzyl alcohol	50	29.0	58	35 - 125	
Bis(2-Chloroethoxy)Methane	50	31.4	62.8	49 - 125	
Bis(2-Chloroethyl)ether	50	31.2	62.4	44 - 125	
Butylbenzylphthalate	50	61.3	122.6	26 - 125	
Chrysene	50	61.8	123.6	55 - 133	
Di-N-Butylphthalate	50	65.0	130	34 - 126	*
Di-n-octylphthalate	50	64.1	128.2	38 - 127	*
Dibenzo(a,h)Anthracene	50	61.5	123	50 - 125	
Dibenzofuran	50	41.8	83.6	52 - 125	
Diethylphthalate	50	57.2	114.4	37 - 125	
Dimethylphthalate	50	45.6	91.2	25 - 175	
Fluoranthene	50	63.7	127.4	47 - 125	*
Fluorene	50	46.7	93.4	48 - 139	
Hexachlorobenzene	50	51.7	103.4	46 - 133	

Comments:

AFCEE

ORGANIC ANALYSES DATA SHEET 7

LABORATORY CONTROL SAMPLE

Analytical Method : 8270C

AAB # : WG60037

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59867-03

Units: ug/L

Initial Calibration HPMS3 23-JUN-1999

Analyte	Expected	Found	%R	Control Limits	Q
Hexachlorobutadiene	50	25.0	50	25 - 125	
Hexachlorocyclopentadiene	50	22.0	44	41 - 125	
Hexachloroethane	50	28.3	56.6	25 - 153	
Indeno(1,2,3-cd)pyrene	50	58.8	117.6	27 - 160	
Isophorone	50	33.0	66	26 - 175	
N-Nitroso-di-n-propylamine	50	36.5	73	37 - 125	
N-Nitrosodiphenylamine	50	54.2	108.4	27 - 125	
Naphthalene	50	28.1	56.2	50 - 125	
Nitrobenzene	50	29.6	59.2	46 - 133	
Pentachlorophenol	50	55.0	110	28 - 136	
Phenanthrene	50	68.0	136	54 - 125	*
Phenol	50	15.1	30.2	25 - 125	
Pyrene	50	60.6	121.2	47 - 136	
bis(2-Chloroisopropyl)ether	50	37.0	74	36 - 166	
bis(2-Ethylhexyl)phthalate	50	62.8	125.6	33 - 129	
p-Nitrophenol	50	28.6	57.2	25 - 131	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
HOLDING TIMES

Analytical Method: 8270C

AAB#: WG60037

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-002

Field Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
S13SUN0100BE	18-Jun-99	21-Jun-99	23-Jun-99	14	5	29-Jun-99	40	6	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1

507 832

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/94 Column ID DB35 Analyst mdc SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HP5973 Data Subdirectory CX2394 SOP # MSS02 Rev. # 1 _____ 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes ____ No ____ Additional Discussion on Page _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17437	50 PPM DFTPP	1	DFTPP	✓	540-20
38	50 PPM BNA STD		BN1	✓	541-46-4
39	4 PPM BNA STD			✓	-1
40	20 PPM BNA STD			✓	-3
41	80 PPM BNA STD			✓	-5
42	100 PPM BNA STD			✓	-6
43	120 PPM BNA STD			✓	-7
44	50 PPM ALT SOURCE BNA STD			✓	
45	W659653-02 SOIL BLK 6/18 V117P171			✓	
46	W659653-03 SOIL LCS 6/18 V117P171			✓	
47	L9906437-01 SOIL			✓	
48	1 -03 SOIL			✓	
49	50 PPM DFTPP		DFTPP	✓	

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 833

Date 6/23/14 Instrument ID HP5973 Data Subdirectory 062314 Column ID RTX

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17450	50 PPM BNA STD	1	3510	✓	1
51	L4906437-02 SOIL			✓	
52	-04 SOIL			✓	
53	-05 SOIL			✓	
54	-06 SOIL			✓	
55	-07 SOIL			✓	
56	-08 SOIL			✓	
57	-09 SOIL			✓	
58	-10 SOIL			✓	
59	LI659653-04 L4906437-11 MS SOIL			✓	
60	LI659653-05 L4906437-12 MSD SOIL			✓	
61	L4906437-13 SOIL			✓	
62	-14 SOIL			✓	
63	-15 SOIL			RR	155, 61ow
64	-16 SOIL				
65	-17 SOIL				
66	-18 SOIL			✓	
67	-19 SOIL			RR	155, 8 low
68	-20 SOIL				

Reviewed By: [illegible] 6/24/14

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards
SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/24/99 Column ID DB-5 Analyst mdc
Instrument ID HPMS3 Data Subdirectory 062499

SOP # MSS01 Rev. # 7 ✓ 8270C
SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ___ No ___

Additional Discussion on Page ___

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17469	50 PPM DFTPP	1	DFTPP	✓	S40-26
70	50 PPM BNA STD		BNA	✓	~~S40~~ mdc 6/25/99 S41-41-4
71	50 PPM BNA STD			✓	
72	W659867-02 SEP BLK 6/23 V118P19			✓	
73	W659867-03 SEP LCS 6/23 V118P19			✓	
74	L9906437-15 REMIX SOIL			✓	
75	-16 REMIX SOIL			✓	
76	-17 REMIX SOIL			✓	
77	-18 REMIX SOIL			✓	
78	-20 REMIX SOIL			✓	
79	W659855-01 TCLP BLK 6/22			✓	SSI low
80	L9906345-04 TCLP			✓	
81	L9906345-05 TCLP				

Reviewed By: EC2 6/25/99

Comments:
√ = Compliant Analysis, Reanalysis complete
RR = Rerun
SMI = Sample matrix interference
MT = Missed Time, beyond method timing requirements

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 834

RR = Rerun

MT = Missed Tune, beyond method tuning requirements

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

507 835

Date 062499 Instrument ID HP5973 Data Subdirectory 062499 Column ID DB5-

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17482	L9906338-01	1	B44	✓	ss 1 low
83	-02			✓	
84	-03			✓	
85	WG59403-04 L9906338-03 MS			✓	
86	WG59403-05 L9906338-03 MSD			✓	
87	L9906338-04			RR	
88	L9906338-05			RR	

mdc 6/25/99

Comments:

Reviewed By: EC 6/25/99

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
IS or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

· 507 836

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/28/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 ✓ 8270C
Instrument ID HPMS3 Data Subdirectory 062899 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	✓
change liner	✓
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17523	50 PPM DFTPP	1X	DFTPP	✓	SV42-10
29	50 PPM BNA STD		BNA	✓	541-4604
30	W660022-02 SOIL BLK 6/25 V118P69			✓	
31	W660022-03 SOIL LCS 6/25 V118P69			✓	
32	L9906565-01 SOIL			✓	
33	" -02			✓	
34	-03			✓	
35	-04			J	
36	-05			✓	
37	-06			✓	
38	L9906569-01			U	SS2 low
39	-02			U	
40	-03			J	

Comments

Reviewed By: [signature]

RR = Rerun

MT = Missed Tune, beyond method tuning requirements

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

507 837

Date _____ Instrument ID _____ Data Subdirectory _____ Column ID _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m17541	W659867-04 L9906509-03 MS	1x	BNA	√	SS2,4/low
42	W659867-05 L9906509-03 MSD			√	
43	L9906509-04			√	SS2 low
44	-05			√	SS2,4/low
45	-06			√	
46	-07			√	
47	-08			√	SS4/low
48	50 PPM DFTPP		DFTPP	√	SV42-10
49	50 PPM BNA STD		BNA	√	[illegible] S41-16-04
50	L9906512-01 SOIL			√	
51	L9906512-02 SOIL			√	
52	L9906512-05			√	SS2 low
53	L9906513-03			√	
54	L9906478-09 SOIL			√	
55	-10			√	
56	-11			√	
57	L9906566-01 SOIL			√	
58	L9906509-13 SOIL			√	
59	-10			√	
60	-11			√	
61	-12			√	
62	W660022-04 L9906509-13 SOIL MS			√	
63	W660022-05 L9906509-14 SOIL MSD			√	
64	L9906509-15 SOIL			√	

Comments:

Reviewed By: [illegible]

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level
[illegible] or SS = Interference with internal and/or surrogate standards

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis
CC = Continuing calibration failed

224

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Date 6/23/99 Column ID DB5 Analyst CLK SOP # MSS01 Rev. # 7 J 8270C
Instrument ID HPMS3 Data Subdirectory 062899 SOP # MSS02 Rev. # 1 625

Daily Check	
helium >500 psi	
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (___ cm)	
injection port seal (goldseal)	
change helium	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes ____ No ____ Additional Discussion on Page ____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
3m 17565	L9406509-16 SOIL	1	BNA	J	
66	-17			J	
67	-19			J	
68	LJ659457-02 SEP BLK 6/24 U118P47			J	
69	L9406578-02			J	
	1				
		CLK			
		6/29/99			

225

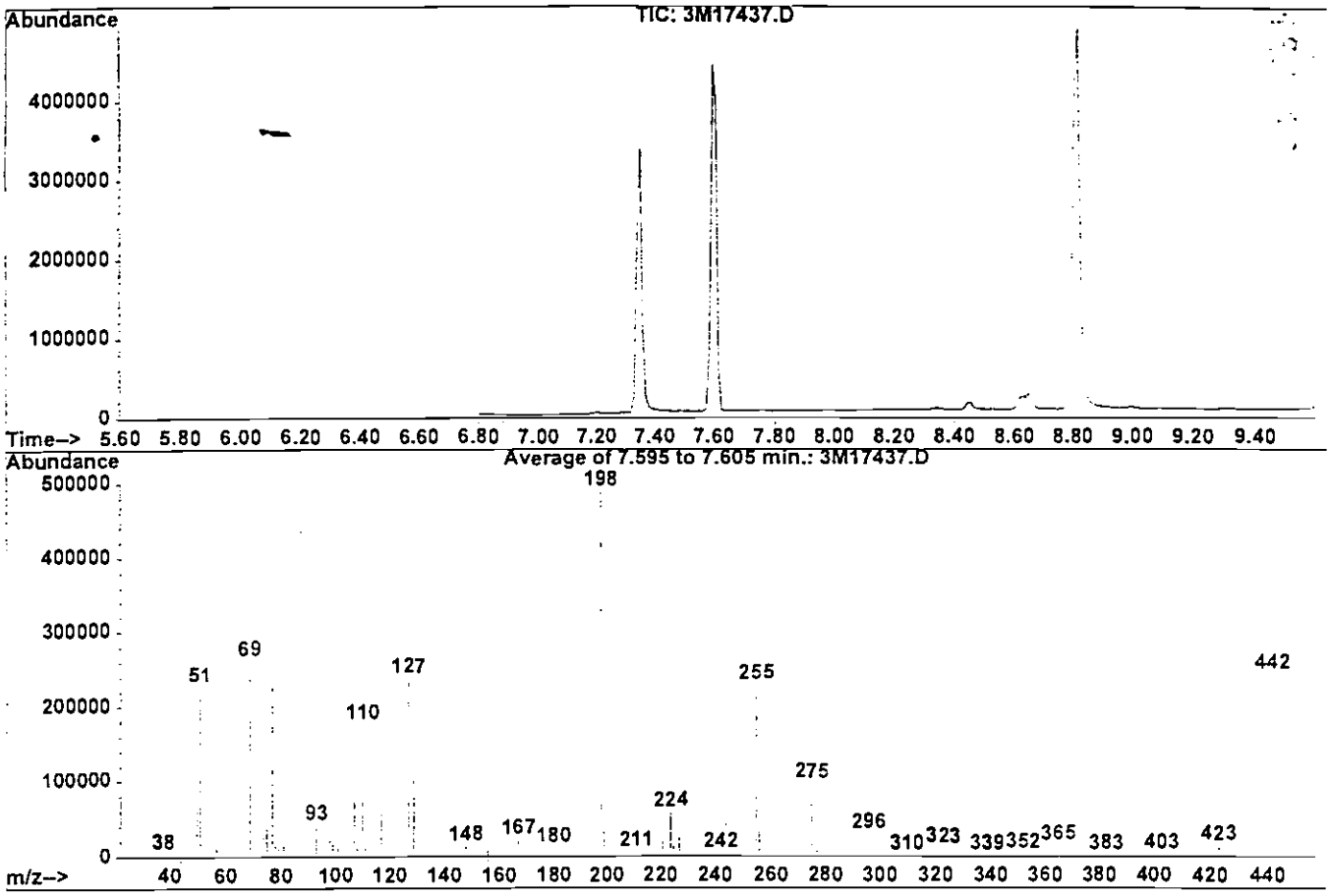
Comments:

Reviewed By

DFTPP

Data File : C:\HPCHEM\1\DATA\062399\3M17437.D
Acq On : 23 Jun 1999 10:52
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.595 to 7.605 min.

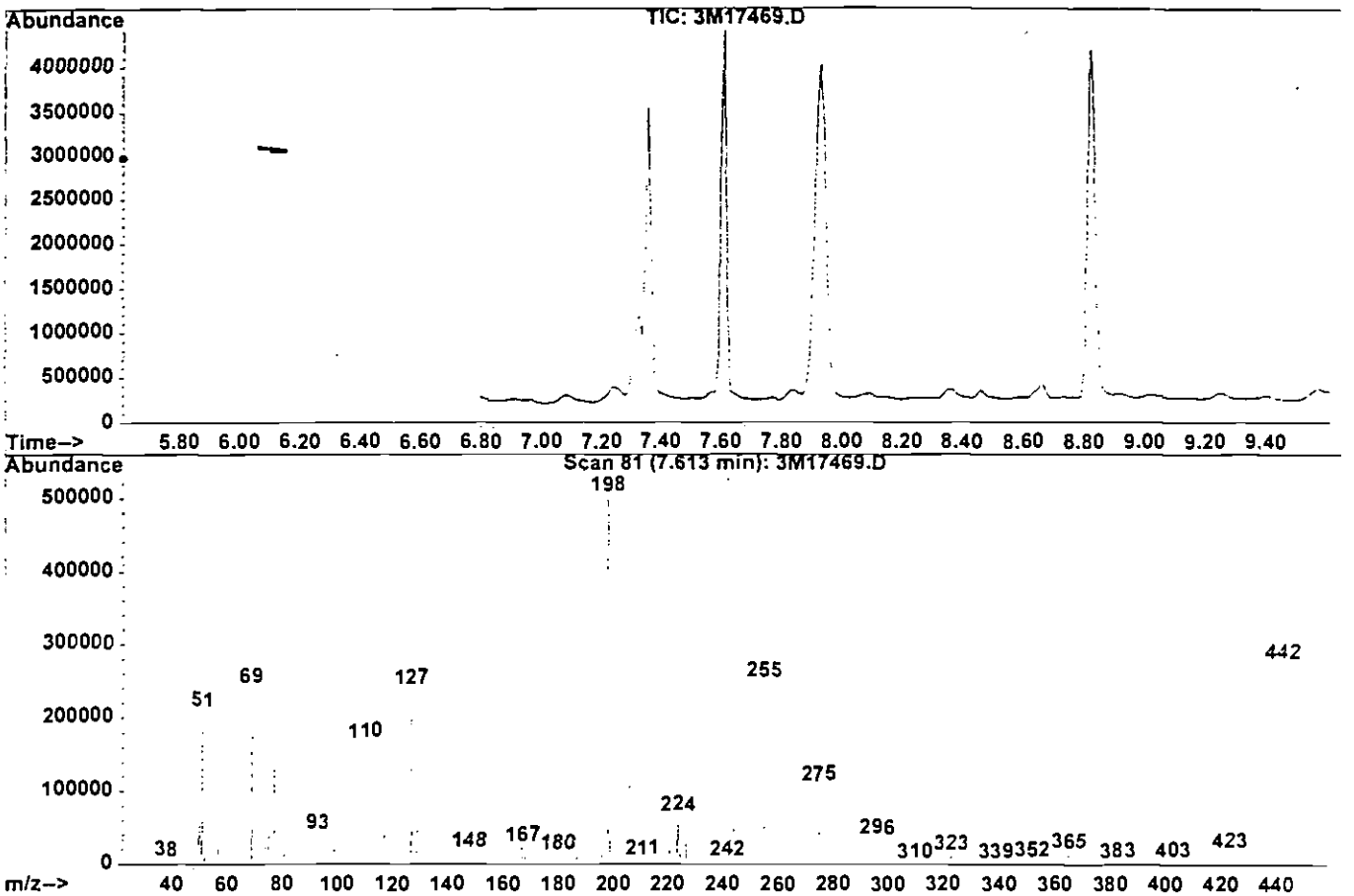
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	227072	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.2	261920	PASS
70	69	0.00	2	0.6	1502	PASS
127	198	40	60	48.4	238208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	492192	PASS
199	198	5	9	6.8	33280	PASS
275	198	10	30	19.5	96160	PASS
365	198	1	100	2.8	13820	PASS
441	443	0.01	100	77.6	36568	PASS
442	198	40	100	49.5	243612	PASS
443	442	17	23	19.4	47148	PASS

3M17437.D DFTPP.M Wed Jun 23 11:08:49 1999 HPMS3

507 840

Data File : C:\HPCHEM\1\DATA\062499\3M17469.D
Acq On : 24 Jun 1999 10:06
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Scan 81

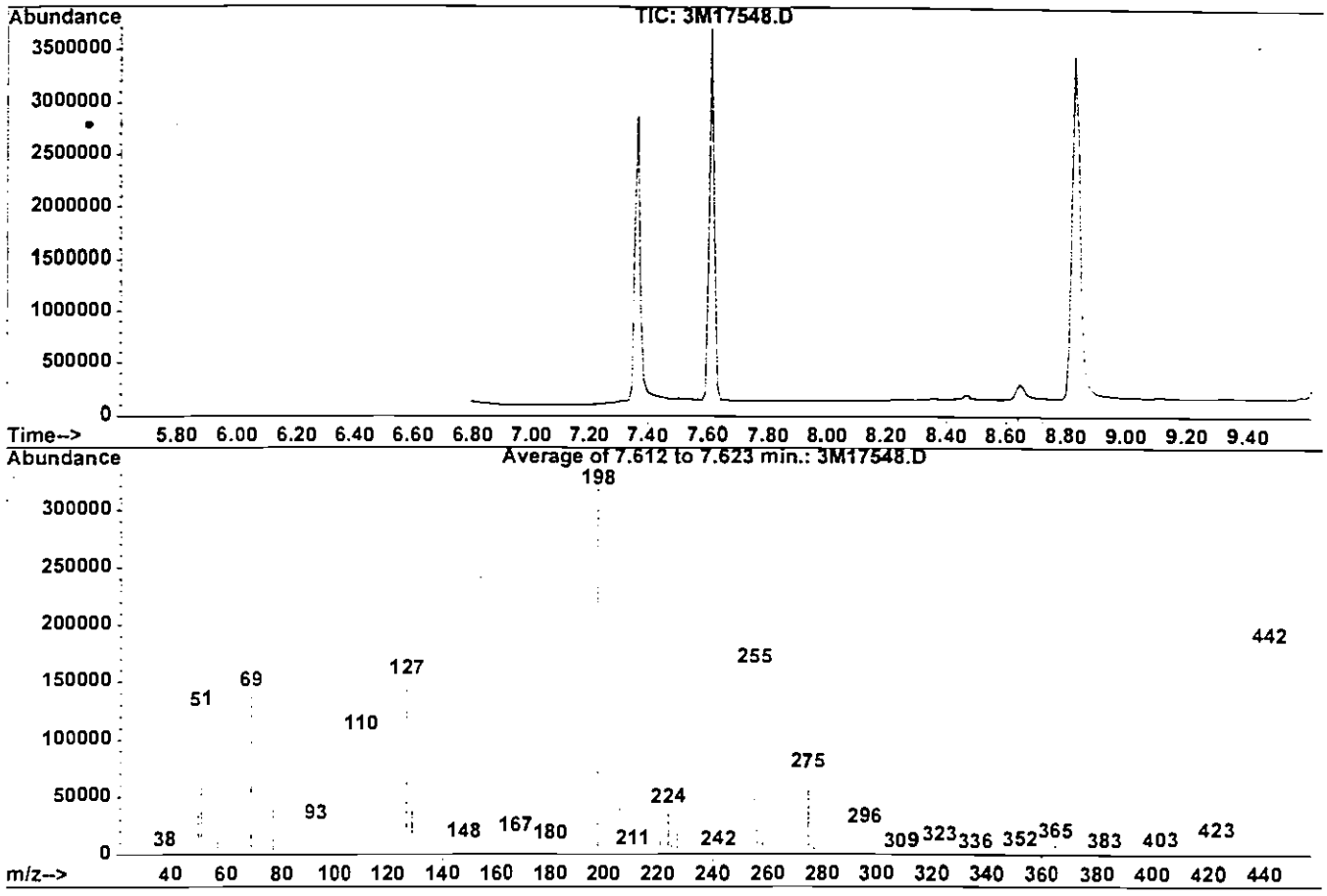
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	206848	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.4	239424	PASS
70	69	0.00	2	1.1	2632	PASS
127	198	40	60	47.1	237888	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	505216	PASS
199	198	5	9	6.7	33616	PASS
275	198	10	30	21.1	106656	PASS
365	198	1	100	2.8	14331	PASS
441	443	0.01	100	79.4	41000	PASS
442	198	40	100	54.2	273600	PASS
443	442	17	23	18.9	51656	PASS

3M17469.D DFTPP.M Thu Jun 24 10:29:45 1999 HPMS3

DFTPP

Data File : C:\HPCHEM\1\DATA\062899\3M17548.D
Acq On : 28 Jun 1999 22:28
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 21
Operator: CLK
Inst : HPMS3
Multiplr: 1.00



Spectrum Information: Average of 7.612 to 7.623 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	124300	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.2	140848	PASS
70	69	0.00	2	0.8	1110	PASS
127	198	40	60	47.4	150984	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	318528	PASS
199	198	5	9	6.8	21675	PASS
275	198	10	30	22.0	69992	PASS
365	198	1	100	3.1	9969	PASS
441	443	0.01	100	33.6	11616	PASS
442	198	40	100	56.6	180352	PASS
443	442	17	23	19.2	34576	PASS

Metals QA/QC

FPM

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B
AAB # : WG60295
Lab Name : Kemron Environmental Services
Contract # : F41624-95-D-8003-0023
Base/Command : Carswells AFB
Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SFU0300BA	L9906513-04
S13SFU0410BA	L9906513-06
S13SFU0506BA	L9906513-07
S13SFU0610BA	L9906513-08
S13SFU0606BA	L9906513-09
S13SFU0706BB	L9906513-10
S13SFU0810BA	L9906513-11
S13SFU0910BB	L9906513-12
S13SFU1010BB	L9906513-13
S13SFU1110BB	L9906513-14

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 13-JUL-99
Title: Laboratory Manager

507 844

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B**

AAB # : **WG60295**

Lab Name : **Kemron Environmental Services**

Contract # : **F41624-95-D-8003-0023**

Base/Command : **Carswells AFB**

Prime Contractor : **FPM**

Field sample ID	
S13SFU1110BC/DUP	L9906513-15
S13SFU1110BS/MS	L9906513-16
S13SFU1110BD/MSD	L9906513-17

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's desi as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **13-JUL-99**

Title: **Laboratory Manager**

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG60295

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 29-Jun-99 Initial Calibration ID: IRIS-ICP 29-JUN-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Arsenic	0	0.02706	0.4	0.04371	10	0.68301	20	1.441	40	2.8321	0.9998	
Cadmium	0	0.14362	0.05	0.20764	1.25	1.9475	2.5	3.8373	5	7.6279	1	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0645;v1.0;12/1/97

AFCEE FORM I-3A

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG60295

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP Date of Calibration: 29-Jun-99 Initial Calibration ID: IRIS-ICP 29-JUN-1999

Units (mg/L or mg/kg): mg/kg

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	r	Q
Barium	0.5	3.7745	1	7.6697	25	185.18	50	389.81	100	786.13	0.9999	

r = correlation coefficient

Comments:
SO results for BA -0.03326.

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG60295

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 29-JUN-1999

2nd Source ID: ALT IRIS-ICP 29-JUN-1999

ICV ID: ICV IRIS-ICP 29-JUN-1999

CCV #1 ID: CCV1 IRIS-ICP 29-JUN-1999

CCV #2 ID CCV2 IRIS-ICP 29-JUN-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	20	19.9050	-0.47	20	19.9050	-0.47	20	20.228	1.14	20.0515	0.26	
Barium	50	53.85	7.70	50	53.85	7.70	50	50.11	0.22	50.41	0.82	
Cadmium	2.5	2.5225	0.90	2.5	2.5225	0.90	2.5	2.505	0.20	2.554	2.16	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845,v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG60295

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: IRIS-ICP

Initial Calibration ID: IRIS-ICP 29-JUN-1999

2nd Source ID: ALT IRIS-ICP 29-JUN-1999

ICV ID: ICV IRIS-ICP 29-JUN-1999

CCV #3 ID: CCV3 IRIS-ICP 29-JUN-1999

CCV #4 ID CCV4 IRIS-ICP 29-JUN-1999

Units: (mg/L or mg/kg) mg/kg

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 3	%D	Found 4	%D	Q
Arsenic	20	19.91	-0.47	20	19.91	-0.47	20	19.7525	-1.24	20.40500	2.03	
Barium	50	53.85	7.70	50	53.85	7.70	50	49.557	-0.89	49.102	-1.80	
Cadmium	2.5	2.5225	0.90	2.5	2.5225	0.90	2.5	2.548	1.92	2.567	2.68	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0848;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG60295

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 29-JUN-1999 Initial Calibration ID: IRIS-ICP 29-JUN-1999

CCB #1 ID CCB1 IRIS-ICP 29-JUN-1999 CCB #2 ID: CCB2 IRIS-ICP 29-JUN-199 CCB #3 ID: CCB3 IRIS-ICP 29-JUN-1999

Method Blank ID: WG59965-02

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	3			
Arsenic	0.087	0.32350	0.09000	0.12000	0.06100	40	
Barium	0.0005	0.2385	0.0175	0.0115	0.0205	1	
Cadmium	0.004	0.0025	0	0.003	0.00750	0.5	

Comments:

5073 850

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG60295

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Initial Calibration Blank ID: IRIS-ICP 29-JUN-1999 Initial Calibration ID: IRIS-ICP 29-JUN-1999

CCB #4 ID CCB4 IRIS-ICP 29-JUN-1999 CCB #0 ID: CCB #0 ID:

Method Blank ID: WG59965-02

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		4	0	0			
Arsenic	0.087	0.14600			0.06100	40	
Barium	0.0005	0.0075			0.0205	1	
Cadmium	0.004	0.0105			0.00750	0.5	

Comments:

AFCEE FORM I-5

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG60295

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59965-03

Units: mg/kg

Initial Calibration IRIS-IC 29-JUN-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	20	20.7	103.5	75 - 125	
Barium, Total	50	53.1	106.2	75 - 125	
Cadmium, Total	2.5	2.64	105.6	75 - 125	

Comments:

507 8852

AFCEE

INORGANIC ANALYSES DATA SHEET 7

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method : 6010B AAB # : WG60295

Lab Name : Kemron Environmental Services Contract# F41624-95-D-8003-0023

Parent Field Sample ID: S13SFU1110BB Units: mg/kg % Solids: 88

MS ID: S13SFU1110BB MS MSD ID: S13SFU1110BB MSD Initial Calibration IRIS-ICP 29-JUN-99

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Arsenic, Total	11	22.7	31.6	90.7	36.4	111.9	14	75 - 125	20	
Barium, Total	27	56.8	78.5	90.7	81	95.1	3.1	75 - 125	20	
Cadmium, Total	0.11	2.84	2.63	88.7	2.69	90.8	2.6	75 - 125	20	

Comments:

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B AAB#: WG60295

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SFU0300BA	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SUN0502BB	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0410BA	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0506BA	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0610BA	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0606BA	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0706BB	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0810BA	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU0910BB	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU1010BB	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU1110BB	18-Jun-99	19-Jun-99	29-Jun-99	180	11	
S13SFU1110BC	18-Jun-99	19-Jun-99	29-Jun-99	180	11	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: IRIS-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	29-Jun-99	12:46	29-Jun-99	
S1	29-Jun-99	12:50	29-Jun-99	
S2	29-Jun-99	12:53	29-Jun-99	
S3	29-Jun-99	12:57	29-Jun-99	
S4	29-Jun-99	13:00	29-Jun-99	
S5	29-Jun-99	13:04	29-Jun-99	
ICV IRIS-ICP 29-JUN-1999	29-Jun-99	13:09	29-Jun-99	
ICB IRIS-ICP 29-JUN-1999	29-Jun-99	13:16	29-Jun-99	
ICSA	29-Jun-99	13:20	29-Jun-99	
ICSAB	29-Jun-99	13:23	29-Jun-99	
CCV1 IRIS-ICP 29-JUN-199	29-Jun-99	13:28	29-Jun-99	
CCB1 IRIS-ICP 29-JUN-199	29-Jun-99	13:35	29-Jun-99	
CCV2 IRIS-ICP 29-JUN-199	29-Jun-99	15:32	29-Jun-99	
CCB2 IRIS-ICP 29-JUN-199	29-Jun-99	15:39	29-Jun-99	
WG59965-02	29-Jun-99	15:47	29-Jun-99	
WG59965-03	29-Jun-99	15:51	29-Jun-99	
S13SFU1110BB	29-Jun-99	15:55	29-Jun-99	
S13SFU1110BC/DUP	29-Jun-99	15:58	29-Jun-99	
S13SFU1110BS/MS	29-Jun-99	16:05	29-Jun-99	
S13SFU1110BD/MSD	29-Jun-99	16:09	29-Jun-99	
S13SFU1110BB DIL	29-Jun-99	16:13	29-Jun-99	
S13SFU1110BB SP	29-Jun-99	16:17	29-Jun-99	
S13SFU0300BA	29-Jun-99	16:20	29-Jun-99	
S13SFU0410BA	29-Jun-99	16:24	29-Jun-99	
CCV3 IRIS-ICP 29-JUN-199	29-Jun-99	16:28	29-Jun-99	
CCB3 IRIS-ICP 29-JUN-199	29-Jun-99	16:31	29-Jun-99	
S13SFU0506BA	29-Jun-99	16:35	29-Jun-99	
S13SFU0610BA	29-Jun-99	16:39	29-Jun-99	
S13SFU0606BA	29-Jun-99	16:42	29-Jun-99	
S13SFU0706BB	29-Jun-99	16:46	29-Jun-99	
S13SFU0810BA	29-Jun-99	16:50	29-Jun-99	
S13SFU0910BB	29-Jun-99	16:53	29-Jun-99	
S13SFU1010BB	29-Jun-99	16:57	29-Jun-99	
CCV4 IRIS-ICP 29-JUN-199	29-Jun-99	17:01	29-Jun-99	
CCB4 IRIS-ICP 29-JUN-199	29-Jun-99	17:08	29-Jun-99	

Comments:

AFCEE

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG59997

Lab Name : Kemron Environmental Services

Contract # : F41624-95-D-8003-0023

Base/Command : Carswells AFB

Prime Contractor : FPM

Field sample ID	Lab Sample ID
S13SUN0100BE	L9906513-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 13-JUL-99

Title: Laboratory Manager

C-507-856

AFCEE
INORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG59997

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP Date of Calibration: 24-Jun-99 Initial Calibration ID: PE-ICP 24-JUN-1999

Units: mg/L

Analyte	Std1	RF1	Std2	RF2	Std3	RF3	r	Q
Arsenic	0.004	30.2	0.4	4299.5	0.8	8919.9	0.9998	
Barium	0.01	3642.6	1	437110.5	2	850533	0.9999	
Cadmium	0.0005	66	0.05	5976.4	0.1	11884.4	1.0000	

r = correlation coefficient

Comments:
SO results are AS -4.5, BA -368.0, CD 14.0.

AFCEE
INORGANIC ANALYSES DATA SHEET 4
CALIBRATION VERIFICATION

AAB#: WG59997

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID: PE-ICP

Initial Calibration ID: PE-ICP 24-JUN-1999

2nd Source ID: ALT PE-ICP 24-JUN-1999

ICV ID: ICV PE-ICP 24-JUN-1999

CCV #1 ID: CCV1 24-JUN-1999

CCV #2 ID CCV2 24-JUN-1999

Units: (mg/L or mg/kg) mg/L

Analyte	2nd Source Calibration Verification			Initial Calibration Verification			Continuing Calibration Verification					
	Expected	Found	%D	Expected	Found	%D	Expected	Found 1	%D	Found 2	%D	Q
Arsenic	0.4	0.4	0	0.4	0.4	0	0.4	0.393	-1.75	0.388	-3	
Barium	1	1	0	1	1	0	1	0.992	-0.8	0.976	-2.4	
Cadmium	0.05	0.0498	-0.4	0.05	0.0498	-0.4	0.05	0.0478	-4.4	0.0467	-6.6	

Comments:

AFCEE FORM I-4

Forms by ChemSW(707)864-0845 v1.0,12/1/97

AFCEE
INORGANIC ANALYSES DATA SHEET 5
BLANKS

Analytical Method: 6010B AAB#: WG59997

Lab Name: Kemron Environmental Services Contract #: F41624-95-D-8003-0

Initial Calibration Blank ID: ICB PE-ICP 24-JUN-99 Initial Calibration ID: PE-ICP 24-JUN-99

CCB #1 ID CCB1 PE-ICP 24-JUN-99 CCB #2 ID: CCB2 PE-ICP 24-JUN-99 CCB #0 ID:

Method Blank ID: WG59933-03

Analyte	Initial Calibration Blank	Continuing Calibration Blank			Method Blank	RL	Q
		1	2	0			
Arsenic	-0.00013	-0.00026	-0.00024		-0.00029	0.03	
Barium	-0.00092	-0.00089	-0.00089		-0.00080	0.005	
Cadmium	-0.00002	0.00002	-0.00002		0.00001	0.007	

Comments:

AFCEE FORM I-5

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG59997

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59933-04

Units: mg/L

Initial Calibration PE-ICP 24-JUN-99

Analyte	Expected	Found	%R	Control Limits	Q
Barium, Total	1	1.00	100	75 - 125	

Comments:

AFCEE

INORGANIC ANALYSES DATA SHEET 6

LABORATORY CONTROL SAMPLE

Analytical Method : 6010B

AAB # : WG59997

Lab Name : Kemron Environmental Services

Contract# F41624-95-D-8003-0023

LCS ID: WG59933-04

Units: mg/L

Initial Calibration PE-ICP 24-JUN-99

Analyte	Expected	Found	%R	Control Limits	Q
Arsenic, Total	.4	0.39	97.5	75 - 125	
Cadmium, Total	.05	0.048	96	75 - 125	

Comments:

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2

AFCEE
INORGANIC ANALYSES DATA SHEET 8
HOLDING TIMES

Analytical Method: 6010B

AAB#: WG59997

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Field Sample ID	Date Collected	Date Received	Date Analyzed	Max. Holding Time (days)	Time Held (days)	Q
S13SUN0100BE	18-Jun-99	19-Jun-99	24-Jun-99	180	6	

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

507 862

AFCEE
INORGANIC ANALYSES DATA SHEET 9
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 6010B

Lab Name: Kemron Environmental Services

Contract #: F41624-95-D-8003-0023

Instrument ID #: PE-ICP

Field Sample ID/StdID/ Blank ID.QC Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
S0	24-Jun-99	10:26	24-Jun-99	
S1	24-Jun-99	10:30	24-Jun-99	
S2	24-Jun-99	10:34	24-Jun-99	
S3	24-Jun-99	10:39	24-Jun-99	
ALT/ICV PE-ICP 24-JUN-99	24-Jun-99	10:43	24-Jun-99	
ICB PE-ICP 24-JUN-1999	24-Jun-99	10:47	24-Jun-99	
ICSA PE-ICP 24-JUN-1999	24-Jun-99	11:04	24-Jun-99	
ICSAB PE-ICP 24-JUN-1999	24-Jun-99	11:09	24-Jun-99	
CCV1 PE-ICP 24-JUN-1999	24-Jun-99	11:13	24-Jun-99	
CCB1 PE-ICP 24-JUN-1999	24-Jun-99	11:17	24-Jun-99	
WG59933-03	24-Jun-99	11:21	24-Jun-99	
WG59933-04	24-Jun-99	11:25	24-Jun-99	
S13SUN0100BE	24-Jun-99	11:43	24-Jun-99	
CCV2 PE-ICP 24-JUN-1999	24-Jun-99	12:04	24-Jun-99	
CCB2 PE-ICP 24-JUN-1999	24-Jun-99	12:09	24-Jun-99	

Comments:

507 863

Chain of Custody Forms

507 864

Work Order L9906513 Client FPM #of Samples 17 Due Date 7/5 Page

Sample #	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
4-17	826	AN	JH 6/23/99 @1610	Login	VOA	Big	JH 7/14/99 @1430	archive	TLB	Archive
4,6-17	8270	Ext	MSH 6/23/99 @0810	walkin	S/AB	TLB	CB 6/23/99 @1120	Archive	Big	Archive
03 H2O	MET	DIG	STK 062399 @810	walkin	MET	TLB	STK 062399 @1100	Archive	Big	Archive
03	8270	EXT	MSH 6/23/99 @0815	walkin	S/AB	TLB	6-24-99 @0800	dumpster	Big	disposal
4-17	PCT-S	Anal	NLC 6/23/99/940	Walkin	wet	Big	NLC 6/23/99/1000	walkin	Big	storage
4,6-17	MET	DIG	STK 062399 @1125	walkin	MET	Big	DMD 6/24/99 910	Archive	Big	Archive
1-3	826	AN	MEG 06/24/99 0830	V1	VOA	Big	JH 7/14/99 @1400	archive	TLB	Archive
~~1~~	~~8260~~	6-28-99 CWB								

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE