



ASSAIGA
ANALYTICAL
LABORATORIES

KAFB 93

June 14, 1993

Phillips Laboratory/EMD
3651 Lowry Avenue, SE
Albuquerque, New Mexico 87117-5777
Attn: Walter Darr



Dear Mr. Darr:

Please find enclosed a copy of the drilling, sampling, and analytical report generated for Kirtland Air Force Base's "Unit Closure Plan for Sewage Lagoons". Specifically, the drilling, sampling, and analyses performed for KAFB's Golf Course Main Pond and the North/South Sewage Lagoons.

This document includes:

- Sample, Analysis, and QC Cross-Reference Tables
- Analytical Reports
- QC Narratives and Summaries
- Field Notes, Lithography, and Borehole Logs
- Chain of Custody Forms

If you have any further questions regarding this document, feel free to contact me at (505) 345-8964.

Sincerely,

Marleah M. Martin
Operations Manager

dg

Enclosures

cc: Stephanie Stoddard



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SECTION I

SAMPLE, ANALYSIS, AND QC CROSS-REFERENCE TABLES

SECTION I.A

AAL WORK ORDER ID # 9305170 SUMMARY

AAL WORK ORDER ID # 9305170 SUMMARY FOR

SAMPLE, ANALYSIS, AND QC CROSS-REFERENCE

DATE COLLECTED	SAMPLE LOCATION	KAFB SAMPLE #	KAFB QC LOT #	AAL SAMPLE #	AAL QC BATCH #	DATE ANALYZED
05/24/93	Golf Course Main Pond East	KAFB-06-MPE-01-1	111A	9305170-01	SMSVOA-098	05/27/93
05/24/93	Golf Course Main Pond Center	KAFB-06-MPC-01-1	121A	9305170-02	SMSVOA-098	05/27/93
05/24/93	Golf Course Main Pond North	KAFB-06-MPN-01-1	131A	9305170-03	SMSVOA-098	05/27/93
05/24/93	Center North Lagoon	KAFB-05-09-01-1	221A	9305170-12	SMSVOA-098	05/27/93
05/24/93	Center North Lagoon (Dup.)	KAFB-05-09-02-1	221A	9305170-13	SMSVOA-098	05/27/93
05/24/93	EQ Blank Golf Course Main Pond East	KAFB-06-EB1A	010A	9305170-07	WMSVOA-085	05/25/93
05/24/93	EQ Blank Golf Course Main Pond East	KAFB-06-EB1SS	010A	9305170-06	WMSVOA-085	05/25/93
05/24/93	EQ Blank Golf Course Main Pond Center	KAFB-06-EB2A	020A	9305170-09	WMSVOA-085	05/25/93
05/24/93	EQ Blank Golf Course Main Pond Center	KAFB-06-EB2SS	020A	9305170-08	WMSVOA-085	05/25/93
05/24/93	EQ Blank Golf Course Main Pond North	KAFB-06-EB3A	030A	9305170-11	WMSVOA-085	05/25/93
05/24/93	EQ Blank Golf Course Main Pond North	KAFB-06-EB3SS	030A	9305170-10	WMSVOA-085	05/25/93
05/24/93	EQ Blank Center North Lagoon	KAFB-05-EB1A	040A	9305170-14	WMSVOA-086	05/26/93
05/24/93	EQ Blank Center North Lagoon	KAFB-05-EB1SS	040A	9305170-15	WMSVOA-086	05/26/93
05/24/93	Ambient Blank Golf Course Main Pond	KAFB-06-AB1	100A	9305170-04	WMSVOA-085	05/25/93
05/24/93	Ambient Blank North Lagoon	KAFB-05-AB1	200A	9305170-17	WMSVOA-086	05/26/93
05/24/93	Field Blank Golf Course Main Pond	KAFB-06-FB1	000A	9305170-05	WMSVOA-085	05/25/93
05/24/93	Field Blank North Lagoon	KAFB-05-FB1	000A	9305170-16	WMSVOA-086	05/26/93
05/24/93	Cooler	TRIP BLANK 1	001A	9305170-18	WMSVOA-086	05/26/93

QC5170RF.TAB



SECTION I.B

AAL WORK ORDER ID # 9305179 SUMMARY

AAL WORK ORDER ID # 9305179 SUMMARY FOR

SAMPLE ANALYSIS AND QC CROSS-REFERENCE

DATE COLLECTED	SAMPLE LOCATION	KAFB SAMPLE #	KAFB QC LOT #	AAL SAMPLE #	AAL QC BATCH #	DATE ANALYZED
05/25/93	SW North Lagoon	KAFB-05-07-01-1	111A	9305179-01	SMSVOA-099	06/04/93
05/25/93	NW North Lagoon	KAFB-05-05-01-1	121A	9305179-02	SMSVOA-099	06/04/90
05/25/93	SE North Lagoon	KAFB-05-08-01-1	131A	9305179-04	SMSVOA-100	06/05/93
05/25/93	NE North Lagoon	KAFB-05-06-01-1	141A	9305179-03	SMSVOA-100	06/05/93
05/25/93	NW South Lagoon	KAFB-05-10-01-1	151A	9305179-17	SMSVOA-100	06/05/93
05/25/93	NW South Lagoon (Dup.)	KAFB-05-10-02-1	151A	9305179-18	SMSVOA-100	06/05/93
05/25/93	EQ Blank SW North Lagoon	KAFB-05-EQ1A	010A	9305179-05	WMSVOA-086	05/26/93
05/25/93	EQ Blank SW North Lagoon	KAFB-05-EQ1SS	010A	9305179-06	WMSVOA-086	05/26/93
05/25/93	EQ Blank NW North Lagoon	KAFB-05-EQ2A	020A	9305179-07	WMSVOA-088	06/06/93
05/25/93	EQ Blank NW North Lagoon	KAFB-05-EQ2SS	020A	9305179-08	WMSVOA-088	06/06/93
05/25/93	EQ Blank SE North Lagoon	KAFB-05-EQ3A	030A	9305179-09	WMSVOA-088	06/06/93
05/25/93	EQ Blank SE North Lagoon	KAFB-05-EQ3SS	030A	9305179-10	WMSVOA-088	06/06/93
05/25/93	EQ Blank NE North Lagoon	KAFB-05-EQ4A	040A	9305179-11	WMSVOA-088	06/06/93
05/25/93	EQ Blank NE North Lagoon	KAFB-05-EQ4SS	040A	9305179-12	WMSVOA-088	06/06/93
05/25/93	EQ Blank SW South Lagoon	KAFB-05-EQ5A	050A	9305179-14	WMSVOA-088	06/06/93
05/25/93	EQ Blank SW South Lagoon	KAFB-05-EQ5SS	050A	9305179-15	WMSVOA-088	06/06/93
05/25/93	Ambient Blank North/South Lagoons	KAFB-05-AB1	100A	9305179-16	WMSVOA-088	06/06/93
05/25/93	Field Blank North/South Lagoons	KAFB-05-FB1	000A	9305179-13	WMSVOA-088	06/06/93
05/25/93	Cooler	TRIP BLANK 1	001A	9305179-19	WMSVOA-088	06/06/93

QC5179RF.TAB



SECTION I.C

AAL WORK ORDER ID # 9305185 SUMMARY

AAL WORKORDER # 9305185 SUMMARY FOR

SAMPLE ANALYSIS AND QC CROSS-REFERENCE

DATE COLLECTED	SAMPLE LOCATION	KAFB SAMPLE #	KAFB QC LOT #	AAL SAMPLE #	AAL QC BATCH #	DATE ANALYZED
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05/26/93	Center South Lagoon	KAFB-05-14-01-1	111A	9305185-01	SMSVOA-100	06/05/93
05/26/93	Center South Lagoon (Dup.)	KAFB-05-14-02-1	111A	9305185-02	SMSVOA-100	06/05/90
05/26/93	SE South Lagoon	KAFB-05-13-01-1	121A	9305185-03	SMSVOA-100	06/05/93
05/26/93	SW South Lagoon	KAFB-05-12-01-1	131A	9305185-04	SMSVOA-100	06/05/93
05/26/93	SW South Lagoon (Dup.)	KAFB-05-12-02-1	131A	9305185-05	SMSVOA-100	06/05/93
05/26/93	NE South Lagoon	KAFB-05-11-01-1	141A	9305185-06	SMSVOA-100	06/05/93
05/26/93	EQ Blank Center South Lagoon	KAFB-05-EQ6A	010A	9305185-08	WMSVOA-089	05/08/93
05/26/93	EQ Blank Center South Lagoon	KAFB-05-EQ6SS	010A	9305185-07	WMSVOA-089	05/08/93
05/26/93	EQ Blank SE South Lagoon	KAFB-05-EQ7A	020A	9305185-13	WMSVOA-089	06/08/93
05/26/93	EQ Blank SE South Lagoon	KAFB-05-EQ7SS	020A	9305185-14	WMSVOA-089	06/08/93
05/26/93	EQ Blank SW South Lagoon	KAFB-05-EQ8A	030A	9305185-11	WMSVOA-089	06/08/93
05/26/93	EQ Blank SW South Lagoon	KAFB-05-EQ8SS	030A	9305185-12	WMSVOA-089	06/08/93
05/26/93	EQ Blank NE South Lagoon	KAFB-05-EQ9A	040A	9305185-09	WMSVOA-089	06/08/93
05/26/93	EQ Blank NE South Lagoon	KAFB-05-EQ9SS	040A	9305185-10	WMSVOA-089	06/08/93
05/26/93	Ambient Blank South Lagoon	KAFB-05-AB1	100A	9305185-16	WMSVOA-089	06/08/93
05/26/93	Field Blank South Lagoon	KAFB-05-FB1	000A	9305185-17	WMSVOA-089	06/08/93
05/26/93	Cooler	TRIP BLANK 1	001A	9305185-15	WMSVOA-089	06/08/93

QC5185RF.TAB



SECTION II
ANALYTICAL REPORTS

SECTION II.A

AAL WORK ORDER ID # 9305170 ANALYTICAL REPORT

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: MARLEAH M. MARTIN
Phone: (505) 345-8964

PHILLIPS LABORATORY/EMD
3651 LOWERY AVE. SE
ALBUQUERQUE, NM 87117-5777

Attn: MARSHA CARRA/WALTER DARR

Purchase Order: OPEN ACCOUNT
Invoice Number:

Order #: 93-05-170
Date: 06/16/93 07:07
Work ID: LAGOONS/POND CLOSURE
Date Received: 05/25/93
Date Completed: 06/03/93

Client Code: PHI08

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	KAFB-06-MPE-01-1	10	KAFB-06-EB3SS
02	KAFB-06-MPC-02-1	11	KAFB-06-EB3A
03	KAFB-06-MPN-03-1	12	KAFB-05-09-01-1
04	KAFB-06-AB1	13	KAFB-05-09-02-1
05	KAFB-06-FB1	14	KAFB-05-EB1A
06	KAFB-06-EB1SS	15	KAFB-05-EB1SS
07	KAFB-06-EB1A	16	KAFB-05-FB1
08	KAFB-06-EB2SS	17	KAFB-05-AB1
09	KAFB-06-EB2A	18	TRIP BLANK 1

see map forward back

Sewage Lagoons

Golf Course Pond

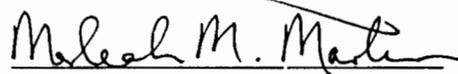


Order # 93-05-170
06/16/93 07:07

Assaigai Analytical Labs

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ND = None Detected D_F = Dilution Factor NT = Not Tested
B = Analyte was present in the blank J = Estimated value
E = Estimated Value, Concentration exceeds calibration range
MULTIPLY THE LIMIT BY THE DILUTION FACTOR.



Certified By
Marleah Martin



Received: 05/25/93

Results by Sample

 SAMPLE ID KAFB-06-MPE-01-1

 FRACTION 01A TEST CODE 8240 NAME Volatiles in soil

 Date & Time Collected 05/24/93 11:35:00

 Category SOIL

PARAMETER	^{mg/kg} RESULT	^{mg/kg} LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	05/27/93
Chloromethane	ND	0.0010	1.0	05/27/93
Iodomethane	ND	0.0010	1.0	05/27/93
Acetone	0.0098	0.0010	1.0	05/27/93
Bromomethane	ND	0.0010	1.0	05/27/93
Vinyl Chloride	ND	0.0010	1.0	05/27/93
Chloroethane	ND	0.0010	1.0	05/27/93
Trichlorofluoromethane	ND	0.0010	1.0	05/27/93
Ethanol	ND	0.0010	1.0	05/27/93
Carbon Disulfide	ND	0.0010	1.0	05/27/93
Acrolein	ND	0.0010	1.0	05/27/93
Methylene Chloride	0.0023 B	0.0010	1.0	05/27/93
1,1-Dichloroethene	ND	0.0010	1.0	05/27/93
1,1-Dichloroethane	ND	0.0010	1.0	05/27/93
Acrylonitrile	ND	0.0010	1.0	05/27/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93
1,2-Dichloroethane	ND	0.0010	1.0	05/27/93
Vinyl Acetate	ND	0.0010	1.0	05/27/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
2-Butanone (MEK)	ND	0.0010	1.0	05/27/93
1,1,1-Trichloroethane	ND	0.0010	1.0	05/27/93
Carbon Tetrachloride	ND	0.0010	1.0	05/27/93
Bromodichloromethane	ND	0.0010	1.0	05/27/93
1,2-Dichloropropane	ND	0.0010	1.0	05/27/93
Dibromomethane	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Trichloroethene	ND	0.0010	1.0	05/27/93
Chlorodibromomethane	ND	0.0010	1.0	05/27/93
Ethyl Methacrylate	ND	0.0010	1.0	05/27/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	05/27/93
1,1,2-Trichloroethane	ND	0.0010	1.0	05/27/93
Benzene	ND	0.0010	1.0	05/27/93
1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93



Received: 05/25/93

REPORT

Results by Sample

Work Order # 93-05-170

3711 Admiral, Suite C • El Paso, Texas 79925

Continued From Above

SAMPLE ID KAFB-06-MPE-01-1 FRACTION 01A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/24/93 11:35:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1398
UNITS _____ mg/Kg
BATCH_ID SMSVOA-098
PRCNT_MOIST _____



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-MPC-02-1FRACTION 02ATEST CODE 8240NAME Volatiles in soilDate & Time Collected 05/24/93 13:05:00Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	05/27/93
Chloromethane	ND	0.0010	1.0	05/27/93
Iodomethane	ND	0.0010	1.0	05/27/93
Acetone	ND	0.0010	1.0	05/27/93
Bromomethane	ND	0.0010	1.0	05/27/93
Vinyl Chloride	ND	0.0010	1.0	05/27/93
Chloroethane	ND	0.0010	1.0	05/27/93
Trichlorofluoromethane	ND	0.0010	1.0	05/27/93
Ethanol	ND	0.0010	1.0	05/27/93
Carbon Disulfide	0.0019	0.0010	1.0	05/27/93
Acrolein	ND	0.0010	1.0	05/27/93
Methylene Chloride	0.0034 B	0.0010	1.0	05/27/93
1,1-Dichloroethene	ND	0.0010	1.0	05/27/93
1,1-Dichloroethane	ND	0.0010	1.0	05/27/93
Acrylonitrile	ND	0.0010	1.0	05/27/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93
1,2-Dichloroethane	ND	0.0010	1.0	05/27/93
Vinyl Acetate	ND	0.0010	1.0	05/27/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
2-Butanone (MEK)	ND	0.0010	1.0	05/27/93
1,1,1-Trichloroethane	ND	0.0010	1.0	05/27/93
Carbon Tetrachloride	ND	0.0010	1.0	05/27/93
Bromodichloromethane	ND	0.0010	1.0	05/27/93
1,2-Dichloropropane	ND	0.0010	1.0	05/27/93
Dibromomethane	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Trichloroethene	ND	0.0010	1.0	05/27/93
Chlorodibromomethane	ND	0.0010	1.0	05/27/93
Ethyl Methacrylate	ND	0.0010	1.0	05/27/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	05/27/93
1,1,2-Trichloroethane	ND	0.0010	1.0	05/27/93
Benzene	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-06-MPC-02-1 FRACTION 02A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/24/93 13:05:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1399
UNITS _____ mg/Kg
BATCH_ID SMSVOA-098
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-MPN-03-1 FRACTION 03A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/24/93 13:50:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	05/27/93
Chloromethane	ND	0.0010	1.0	05/27/93
Iodomethane	ND	0.0010	1.0	05/27/93
Acetone	0.0062	0.0010	1.0	05/27/93
Bromomethane	ND	0.0010	1.0	05/27/93
Vinyl Chloride	ND	0.0010	1.0	05/27/93
Chloroethane	ND	0.0010	1.0	05/27/93
Trichlorofluoromethane	ND	0.0010	1.0	05/27/93
Ethanol	ND	0.0010	1.0	05/27/93
Carbon Disulfide	ND	0.0010	1.0	05/27/93
Acrolein	ND	0.0010	1.0	05/27/93
Methylene Chloride	0.0019 B	0.0010	1.0	05/27/93
1,1-Dichloroethene	ND	0.0010	1.0	05/27/93
1,1-Dichloroethane	ND	0.0010	1.0	05/27/93
Acrylonitrile	ND	0.0010	1.0	05/27/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93
1,2-Dichloroethane	ND	0.0010	1.0	05/27/93
Vinyl Acetate	ND	0.0010	1.0	05/27/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
2-Butanone (MEK)	ND	0.0010	1.0	05/27/93
1,1,1-Trichloroethane	ND	0.0010	1.0	05/27/93
Carbon Tetrachloride	ND	0.0010	1.0	05/27/93
Bromodichloromethane	ND	0.0010	1.0	05/27/93
1,2-Dichloropropane	ND	0.0010	1.0	05/27/93
Dibromomethane	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Trichloroethene	ND	0.0010	1.0	05/27/93
Chlorodibromomethane	ND	0.0010	1.0	05/27/93
Ethyl Methacrylate	ND	0.0010	1.0	05/27/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	05/27/93
1,1,2-Trichloroethane	ND	0.0010	1.0	05/27/93
Benzene	ND	0.0010	1.0	05/27/93
cis-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-MPN-03-1 FRACTION 03A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/24/93 13:50:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	05/27/93
Tetrachloroethene	ND	0.0010	1.0	05/27/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	05/27/93
2-Hexanone (MBK)	ND	0.0010	1.0	05/27/93
Toluene	ND	0.0010	1.0	05/27/93
Chlorobenzene	ND	0.0010	1.0	05/27/93
Ethylbenzene	ND	0.0010	1.0	05/27/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	05/27/93
Styrene	ND	0.0010	1.0	05/27/93
P/M Xylene	ND	0.0010	1.0	05/27/93
O-Xylene	ND	0.0010	1.0	05/27/93
1,2,3-Trichloropropane	ND	0.0010	1.0	05/27/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1400
 UNITS mg/Kg
 BATCH_ID SMSVOA-098
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-AB1 FRACTION 04A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 14:00:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	4.1	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	2.0 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	ND	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Bromoform	ND	1.0	1.0	05/25/93



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-AB1 FRACTION 04A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 14:00:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1360
UNITS _____ ug/L
BATCH_ID WMSVOA-085
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-FB1 FRACTION 05A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 14:10:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	2.4	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	6.6 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	ND	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
BromoForm	ND	1.0	1.0	05/25/93



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-FB1 FRACTION 05A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 14:10:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1361
UNITS _____ ug/L
BATCH_ID WMSVOA-085
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-EB1SS FRACTION 06A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 11:20:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	ND	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	5.0 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	ND	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Bromoform	ND	1.0	1.0	05/25/93



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-EB1SS FRACTION 06A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 11:20:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/25/93
Tetrachloroethene	ND	1.0	1.0	05/25/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/25/93
2-Hexanone (MBK)	3.6	1.0	1.0	05/25/93
Toluene	ND	1.0	1.0	05/25/93
Chlorobenzene	ND	1.0	1.0	05/25/93
Ethylbenzene	ND	1.0	1.0	05/25/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/25/93
Styrene	ND	1.0	1.0	05/25/93
P/M Xylene	ND	1.0	1.0	05/25/93
O-Xylene	ND	1.0	1.0	05/25/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/25/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1362
UNITS _____ ug/L
BATCH_ID WMSVOA-085
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-EB1A FRACTION 07A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 11:05:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	4.5	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	4.1 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	2.5	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Bromoform	ND	1.0	1.0	05/25/93



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-KB1A FRACTION 07A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 11:05:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
2-Hexanone (MBK)	<u>11.4</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1363
UNITS ug/L
BATCH_ID WMSVOA-085
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-EB2SS FRACTION 08A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 12:30:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	4.6	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	5.5 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	2.0	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Bromoform	ND	1.0	1.0	05/25/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-06-EB2SS FRACTION 08A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 12:30:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/25/93
Tetrachloroethene	ND	1.0	1.0	05/25/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/25/93
2-Hexanone (MBK)	6.3	1.0	1.0	05/25/93
Toluene	ND	1.0	1.0	05/25/93
Chlorobenzene	ND	1.0	1.0	05/25/93
Ethylbenzene	ND	1.0	1.0	05/25/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/25/93
Styrene	ND	1.0	1.0	05/25/93
P/M Xylene	ND	1.0	1.0	05/25/93
O-Xylene	ND	1.0	1.0	05/25/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/25/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1364
 UNITS ug/L
 BATCH_ID WMSVOA-085
 PRCNT_MOIST _____



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-06-EB2A FRACTION 09A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 12:15:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	4.1	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	4.4 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	1.7	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Bromoform	ND	1.0	1.0	05/25/93

THIS REPORT MUST NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL LABORATORY VOLUNTARY ACCREDITATION PROGRAM OR ANY OTHER AGENCY OF THE UNITED STATES GOVERNMENT.



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-EB2A FRACTION 09A TEST CODE WB240 NAME Volatiles in water
Date & Time Collected 05/24/93 12:15:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/25/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1365
UNITS _____ ug/L
BATCH_ID WMSVOA-085
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-06-EB3SS FRACTION 10A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/92 13:25:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/25/93
Chloromethane	ND	1.0	1.0	05/25/93
Iodomethane	ND	1.0	1.0	05/25/93
Acetone	8.6	1.0	1.0	05/25/93
Bromomethane	ND	1.0	1.0	05/25/93
Vinyl Chloride	ND	1.0	1.0	05/25/93
Chloroethane	ND	1.0	1.0	05/25/93
Trichlorofluoromethane	ND	1.0	1.0	05/25/93
Ethanol	ND	1.0	1.0	05/25/93
Carbon Disulfide	ND	1.0	1.0	05/25/93
Acrolein	ND	1.0	1.0	05/25/93
Methylene Chloride	5.2 B	1.0	1.0	05/25/93
1,1-Dichloroethene	ND	1.0	1.0	05/25/93
1,1-Dichloroethane	ND	1.0	1.0	05/25/93
Acrylonitrile	ND	1.0	1.0	05/25/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
Chloroform	ND	1.0	1.0	05/25/93
1,2-Dichloroethane	ND	1.0	1.0	05/25/93
Vinyl Acetate	ND	1.0	1.0	05/25/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/25/93
2-Butanone (MEK)	3.6	1.0	1.0	05/25/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/25/93
Carbon Tetrachloride	ND	1.0	1.0	05/25/93
Bromodichloromethane	ND	1.0	1.0	05/25/93
1,2-Dichloropropane	ND	1.0	1.0	05/25/93
Dibromomethane	ND	1.0	1.0	05/25/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Trichloroethene	ND	1.0	1.0	05/25/93
Chlorodibromomethane	ND	1.0	1.0	05/25/93
Ethyl Methacrylate	ND	1.0	1.0	05/25/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/25/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/25/93
Benzene	ND	1.0	1.0	05/25/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/25/93
Bromoform	ND	1.0	1.0	05/25/93

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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-06-EB3SS FRACTION 10A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/92 13:25:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/25/93
Tetrachloroethene	ND	1.0	1.0	05/25/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/25/93
2-Hexanone (MBK)	ND	1.0	1.0	05/25/93
Toluene	ND	1.0	1.0	05/25/93
Chlorobenzene	ND	1.0	1.0	05/25/93
Ethylbenzene	ND	1.0	1.0	05/25/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/25/93
Styrene	ND	1.0	1.0	05/25/93
P/M Xylene	ND	1.0	1.0	05/25/93
O-Xylene	ND	1.0	1.0	05/25/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/25/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1366
UNITS ug/L
BATCH_ID WMSVOA-085
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-06-EB3A FRACTION 11A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 13:15:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	12	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	3.6 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	3.3	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93



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Received: 05/25/93

REPORT

Results by Sample

Work Order # 93-05-170

Continued From Above

SAMPLE ID KAFB-06-EB3A FRACTION 11A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 13:15:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/26/93
Tetrachloroethene	ND	1.0	1.0	05/26/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/26/93
2-Hexanone (MBK)	9.3	1.0	1.0	05/26/93
Toluene	ND	1.0	1.0	05/26/93
Chlorobenzene	ND	1.0	1.0	05/26/93
Ethylbenzene	ND	1.0	1.0	05/26/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/26/93
Styrene	ND	1.0	1.0	05/26/93
P/M Xylene	ND	1.0	1.0	05/26/93
O-Xylene	ND	1.0	1.0	05/26/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/26/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1374
 UNITS ug/L
 BATCH_ID WMSVOA-086
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-09-01-1 FRACTION 127 TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/24/93 17:00:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	05/27/93
Chloromethane	ND	0.0010	1.0	05/27/93
Iodomethane	ND	0.0010	1.0	05/27/93
Acetone	0.011	0.0010	1.0	05/27/93
Bromomethane	ND	0.0010	1.0	05/27/93
Vinyl Chloride	ND	0.0010	1.0	05/27/93
Chloroethane	ND	0.0010	1.0	05/27/93
Trichlorofluoromethane	ND	0.0010	1.0	05/27/93
Ethanol	ND	0.0010	1.0	05/27/93
Carbon Disulfide	ND	0.0010	1.0	05/27/93
Acrolein	ND	0.0010	1.0	05/27/93
Methylene Chloride	0.0023 B	0.0010	1.0	05/27/93
1,1-Dichloroethene	ND	0.0010	1.0	05/27/93
1,1-Dichloroethane	ND	0.0010	1.0	05/27/93
Acrylonitrile	ND	0.0010	1.0	05/27/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93
1,2-Dichloroethane	ND	0.0010	1.0	05/27/93
Vinyl Acetate	ND	0.0010	1.0	05/27/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
2-Butanone (MEK)	ND	0.0010	1.0	05/27/93
1,1,1-Trichloroethane	ND	0.0010	1.0	05/27/93
Carbon Tetrachloride	ND	0.0010	1.0	05/27/93
Bromodichloromethane	ND	0.0010	1.0	05/27/93
1,2-Dichloropropane	ND	0.0010	1.0	05/27/93
Dibromomethane	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Trichloroethene	ND	0.0010	1.0	05/27/93
Chlorodibromomethane	ND	0.0010	1.0	05/27/93
Ethyl Methacrylate	ND	0.0010	1.0	05/27/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	05/27/93
1,1,2-Trichloroethane	ND	0.0010	1.0	05/27/93
Benzene	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93



SAMPLE ID KAFB-05-09-01-1 FRACTION 12A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/24/93 17:00:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	05/27/93
Tetrachloroethene	ND	0.0010	1.0	05/27/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	05/27/93
2-Hexanone (MBK)	ND	0.0010	1.0	05/27/93
Toluene	ND	0.0010	1.0	05/27/93
Chlorobenzene	ND	0.0010	1.0	05/27/93
Ethylbenzene	ND	0.0010	1.0	05/27/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	05/27/93
Styrene	ND	0.0010	1.0	05/27/93
P/M Xylene	ND	0.0010	1.0	05/27/93
O-Xylene	ND	0.0010	1.0	05/27/93
1,2,3-Trichloropropane	ND	0.0010	1.0	05/27/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID _____ V1401
 UNITS _____ mg/Kg
 BATCH_ID SMSVOA-098
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-09-02-1

FRACTION 13A

TEST CODE 8240

NAME Volatiles in soil

Date & Time Collected 05/24/93 17:05:00

Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	05/27/93
Chloromethane	ND	0.0010	1.0	05/27/93
Iodomethane	ND	0.0010	1.0	05/27/93
Acetone	0.0091	0.0010	1.0	05/27/93
Bromomethane	ND	0.0010	1.0	05/27/93
Vinyl Chloride	ND	0.0010	1.0	05/27/93
Chloroethane	ND	0.0010	1.0	05/27/93
Trichlorofluoromethane	ND	0.0010	1.0	05/27/93
Ethanol	ND	0.0010	1.0	05/27/93
Carbon Disulfide	ND	0.0010	1.0	05/27/93
Acrolein	ND	0.0010	1.0	05/27/93
Methylene Chloride	0.0021 B	0.0010	1.0	05/27/93
1,1-Dichloroethene	ND	0.0010	1.0	05/27/93
1,1-Dichloroethane	ND	0.0010	1.0	05/27/93
Acrylonitrile	ND	0.0010	1.0	05/27/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93
1,2-Dichloroethane	ND	0.0010	1.0	05/27/93
Vinyl Acetate	ND	0.0010	1.0	05/27/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	05/27/93
2-Butanone (MEK)	ND	0.0010	1.0	05/27/93
1,1,1-Trichloroethane	ND	0.0010	1.0	05/27/93
Carbon Tetrachloride	ND	0.0010	1.0	05/27/93
Bromodichloromethane	ND	0.0010	1.0	05/27/93
1,2-Dichloropropane	ND	0.0010	1.0	05/27/93
Dibromomethane	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Trichloroethene	ND	0.0010	1.0	05/27/93
Chlorodibromomethane	ND	0.0010	1.0	05/27/93
Ethyl Methacrylate	ND	0.0010	1.0	05/27/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	05/27/93
1,1,2-Trichloroethane	ND	0.0010	1.0	05/27/93
Benzene	ND	0.0010	1.0	05/27/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	05/27/93
Chloroform	ND	0.0010	1.0	05/27/93



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-09-02-1 FRACTION 13A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/24/93 17:05:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>05/27/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1402
UNITS _____ mg/Kg
BATCH_ID SMSVOA-098
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EB1A FRACTION 14A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 16:20:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	17	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	1.9 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	4.0	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93



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Received: 05/25/93

REPORT

Results by Sample

Work Order # 93-05-170

Continued From Above

SAMPLE ID KAPB-05-EB1A FRACTION 14A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 16:20:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/26/93
Tetrachloroethene	ND	1.0	1.0	05/26/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/26/93
2-Hexanone (MBK)	ND	1.0	1.0	05/26/93
Toluene	ND	1.0	1.0	05/26/93
Chlorobenzene	ND	1.0	1.0	05/26/93
Ethylbenzene	ND	1.0	1.0	05/26/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/26/93
Styrene	ND	1.0	1.0	05/26/93
P/M Xylene	ND	1.0	1.0	05/26/93
O-Xylene	ND	1.0	1.0	05/26/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/26/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1375
UNITS ug/L
BATCH_ID WMSVOA-086
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EB1SS FRACTION 15A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 16:40:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	4.6	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	2.9 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	1.4	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93

THIS REPORT MUST NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL LABORATORY VOLUNTARY ACCREDITATION PROGRAM OR ANY OTHER AGENCY OF THE UNITED STATES GOVERNMENT.



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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-EB1SS FRACTION 15A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 16:40:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1376
UNITS ug/L
BATCH_ID WMSVOA-086
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-FB1 FRACTION 16A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 17:10:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	2.8	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	4.4 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	ND	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-FB1 FRACTION 16A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 17:10:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/26/93
Tetrachloroethene	ND	1.0	1.0	05/26/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/26/93
2-Hexanone (MBK)	ND	1.0	1.0	05/26/93
Toluene	ND	1.0	1.0	05/26/93
Chlorobenzene	ND	1.0	1.0	05/26/93
Ethylbenzene	ND	1.0	1.0	05/26/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/26/93
Styrene	ND	1.0	1.0	05/26/93
P/M Xylene	ND	1.0	1.0	05/26/93
O-Xylene	ND	1.0	1.0	05/26/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/26/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1377
 UNITS ug/L
 BATCH_ID WMSVOA-086
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-AB1 FRACTION 17A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 17:15:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	2.8	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	4.1 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	ND	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93

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REPORT

Work Order # 93-05-170

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-AB1 FRACTION 17A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/24/93 17:15:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1378
UNITS ug/L
BATCH_ID WMSVOA-086
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID TRIP BLANK 1FRACTION 18ATEST CODE W8240NAME Volatiles in waterDate & Time Collected 05/24/93Category DI WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	2.1	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	1.3 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	ND	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID TRIP BLANK 1 FRACTION 18A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/24/93 Category DI WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/26/93
Tetrachloroethene	ND	1.0	1.0	05/26/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/26/93
2-Hexanone (MBK)	ND	1.0	1.0	05/26/93
Toluene	ND	1.0	1.0	05/26/93
Chlorobenzene	ND	1.0	1.0	05/26/93
Ethylbenzene	ND	1.0	1.0	05/26/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/26/93
Styrene	ND	1.0	1.0	05/26/93
P/M Xylene	ND	1.0	1.0	05/26/93
O-Xylene	ND	1.0	1.0	05/26/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/26/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID _____ V1379
 UNITS _____ ug/L
 BATCH_ID WMSVOA-086
 PRcnt_MOIST _____



SECTION II.B

AAL WORK ORDER ID # 9305179 ANALYTICAL REPORT

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: MARLEAH M. MARTIN
Phone: (505) 345-8964

PHILLIPS LABORATORY/EMD
3651 LOWERY AVE. SE
ALBUQUERQUE, NM 87117-5777

Attn: MARSHA CARRA/WALTER DARR

Order #: 93-05-179
Date: 06/10/93 15:13
Work ID: LAGOON/POND CLOSURE
Date Received: 05/25/93
Date Completed: 06/08/93

Purchase Order: F29650-93-D0008-5000
Invoice Number:

Client Code: PHI08

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	KAFB-05-07-01-1	11	KAFB-05-EQ4A
02	KAFB-05-05-01-1	12	KAFB-05-EQ4SS
03	KAFB-05-06-01-1	13	KAFB-05-FB1
04	KAFB-05-08-01-1	14	KAFB-05-EQ5A
05	KAFB-05-EQ1A	15	KAFB-05-EQSS
06	KAFB-05-EQ1SS	16	KAFB-05-AB1
07	KAFB-05-EQ2A	17	KAFB-05-10-01-1
08	KAFB-05-EQ2SS	18	KAFB-05-10-02-1
09	KAFB-05-EQ3A	19	TRIP BLANK 1
10	KAFB-05-EQ3SS		



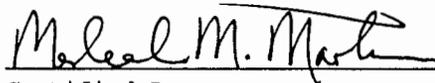
Order # 93-05-179

Assaigai Analytical Labs

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06/10/93 15:13

ND = None Detected D_F = Dilution Factor NT = Not Tested
B = Analyte was present in the blank J = Estimated value
E = Estimated Value, Concentration exceeds calibration range
MULTIPLY THE LIMIT BY THE DILUTION FACTOR.



Certified By
Marleah Martin



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-07-01-1 FRACTION 01A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 09:20:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/04/93
Chloromethane	ND	0.0010	1.0	06/04/93
Iodomethane	ND	0.0010	1.0	06/04/93
Acetone	ND	0.0010	1.0	06/04/93
Bromomethane	ND	0.0010	1.0	06/04/93
Vinyl Chloride	ND	0.0010	1.0	06/04/93
Chloroethane	ND	0.0010	1.0	06/04/93
Trichlorofluoromethane	ND	0.0010	1.0	06/04/93
Ethanol	ND	0.0010	1.0	06/04/93
Carbon Disulfide	ND	0.0010	1.0	06/04/93
Acrolein	ND	0.0010	1.0	06/04/93
Methylene Chloride	0.0023 B	0.0010	1.0	06/04/93
1,1-Dichloroethene	ND	0.0010	1.0	06/04/93
1,1-Dichloroethane	ND	0.0010	1.0	06/04/93
Acrylonitrile	ND	0.0010	1.0	06/04/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/04/93
Chloroform	ND	0.0010	1.0	06/04/93
1,2-Dichloroethane	ND	0.0010	1.0	06/04/93
Vinyl Acetate	ND	0.0010	1.0	06/04/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/04/93
2-Butanone (MEK)	ND	0.0010	1.0	06/04/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/04/93
Carbon Tetrachloride	ND	0.0010	1.0	06/04/93
Bromodichloromethane	ND	0.0010	1.0	06/04/93
1,2-Dichloropropane	ND	0.0010	1.0	06/04/93
Dibromomethane	ND	0.0010	1.0	06/04/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/04/93
Trichloroethene	ND	0.0010	1.0	06/04/93
Chlorodibromomethane	ND	0.0010	1.0	06/04/93
Ethyl Methacrylate	ND	0.0010	1.0	06/04/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/04/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/04/93
Benzene	ND	0.0010	1.0	06/04/93
1,3-Dichloropropene	ND	0.0010	1.0	06/04/93
Chloroform	ND	0.0010	1.0	06/04/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-07-01-1 FRACTION 01A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 09:20:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	06/04/93
Tetrachloroethene	ND	0.0010	1.0	06/04/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	06/04/93
2-Hexanone (MBK)	ND	0.0010	1.0	06/04/93
Toluene	ND	0.0010	1.0	06/04/93
Chlorobenzene	ND	0.0010	1.0	06/04/93
Ethylbenzene	ND	0.0010	1.0	06/04/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	06/04/93
Styrene	ND	0.0010	1.0	06/04/93
P/M Xylene	ND	0.0010	1.0	06/04/93
O-Xylene	ND	0.0010	1.0	06/04/93
1,2,3-Trichloropropane	ND	0.0010	1.0	06/04/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1494
 UNITS mg/Kg
 BATCH_ID SMSVOA-099
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-05-01-1 FRACTION 02A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 10:05:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/04/93
Chloromethane	ND	0.0010	1.0	06/04/93
Iodomethane	ND	0.0010	1.0	06/04/93
Acetone	ND	0.0010	1.0	06/04/93
Bromomethane	ND	0.0010	1.0	06/04/93
Vinyl Chloride	ND	0.0010	1.0	06/04/93
Chloroethane	ND	0.0010	1.0	06/04/93
Trichlorofluoromethane	ND	0.0010	1.0	06/04/93
Ethanol	ND	0.0010	1.0	06/04/93
Carbon Disulfide	ND	0.0010	1.0	06/04/93
Acrolein	ND	0.0010	1.0	06/04/93
Methylene Chloride	0.0024 B	0.0010	1.0	06/04/93
1,1-Dichloroethene	ND	0.0010	1.0	06/04/93
1,1-Dichloroethane	ND	0.0010	1.0	06/04/93
Acrylonitrile	ND	0.0010	1.0	06/04/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/04/93
Chloroform	ND	0.0010	1.0	06/04/93
1,2-Dichloroethane	ND	0.0010	1.0	06/04/93
Vinyl Acetate	ND	0.0010	1.0	06/04/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/04/93
2-Butanone (MEK)	ND	0.0010	1.0	06/04/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/04/93
Carbon Tetrachloride	ND	0.0010	1.0	06/04/93
Bromodichloromethane	ND	0.0010	1.0	06/04/93
1,2-Dichloropropane	ND	0.0010	1.0	06/04/93
Dibromomethane	ND	0.0010	1.0	06/04/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/04/93
Trichloroethene	ND	0.0010	1.0	06/04/93
Chlorodibromomethane	ND	0.0010	1.0	06/04/93
Ethyl Methacrylate	ND	0.0010	1.0	06/04/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/04/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/04/93
Benzene	ND	0.0010	1.0	06/04/93
1,3-Dichloropropene	ND	0.0010	1.0	06/04/93
Form	ND	0.0010	1.0	06/04/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-05-01-1 FRACTION 02A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 10:05:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	06/04/93
Tetrachloroethene	ND	0.0010	1.0	06/04/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	06/04/93
2-Hexanone (MBK)	ND	0.0010	1.0	06/04/93
Toluene	ND	0.0010	1.0	06/04/93
Chlorobenzene	ND	0.0010	1.0	06/04/93
Ethylbenzene	ND	0.0010	1.0	06/04/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	06/04/93
Styrene	ND	0.0010	1.0	06/04/93
P/M Xylene	ND	0.0010	1.0	06/04/93
O-Xylene	ND	0.0010	1.0	06/04/93
1,2,3-Trichloropropane	ND	0.0010	1.0	06/04/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID _____ V1495
 UNITS _____ mg/Kg
 BATCH_ID SMSVOA-099
 PRcnt_Moist _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-06-01-1 FRACTION 03A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 10:50:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.023	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0062 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Form	ND	0.0010	1.0	06/05/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-06-01-1 FRACTION 03A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 10:50:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	06/05/93
Tetrachloroethene	ND	0.0010	1.0	06/05/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	06/05/93
2-Hexanone (MBK)	ND	0.0010	1.0	06/05/93
Toluene	ND	0.0010	1.0	06/05/93
Chlorobenzene	ND	0.0010	1.0	06/05/93
Ethylbenzene	ND	0.0010	1.0	06/05/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	06/05/93
Styrene	ND	0.0010	1.0	06/05/93
P/M Xylene	ND	0.0010	1.0	06/05/93
O-Xylene	ND	0.0010	1.0	06/05/93
1,2,3-Trichloropropane	ND	0.0010	1.0	06/05/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1504
 UNITS _____ mg/Kg
 BATCH_ID SMSVOA-100
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

 SAMPLE ID KAFB-05-08-01-1

 FRACTION 04A

 TEST CODE 8240

 NAME Volatiles in soil

 Date & Time Collected 05/25/93 11:40:00

 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.046	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.006 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Form	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-08-01-1 FRACTION 04A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/25/93 11:40:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1505
UNITS _____ mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EQ1A FRACTION 05A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 08:50:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	ND	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	ND	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	2.1 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	ND	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Bromoform	ND	1.0	1.0	05/26/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-EQ1A FRACTION 05A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 08:50:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	05/26/93
Tetrachloroethene	ND	1.0	1.0	05/26/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	05/26/93
2-Hexanone (MBK)	ND	1.0	1.0	05/26/93
Toluene	ND	1.0	1.0	05/26/93
Chlorobenzene	ND	1.0	1.0	05/26/93
Ethylbenzene	ND	1.0	1.0	05/26/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	05/26/93
Styrene	ND	1.0	1.0	05/26/93
P/M Xylene	ND	1.0	1.0	05/26/93
O-Xylene	ND	1.0	1.0	05/26/93
1,2,3-Trichloropropane	ND	1.0	1.0	05/26/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1380
 UNITS ug/L
 BATCH_ID WMSVOA-086
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EQ1SS FRACTION 06A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:10:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	05/26/93
Chloromethane	ND	1.0	1.0	05/26/93
Iodomethane	ND	1.0	1.0	05/26/93
Acetone	13	1.0	1.0	05/26/93
Bromomethane	ND	1.0	1.0	05/26/93
Vinyl Chloride	ND	1.0	1.0	05/26/93
Chloroethane	ND	1.0	1.0	05/26/93
Trichlorofluoromethane	ND	1.0	1.0	05/26/93
Ethanol	ND	1.0	1.0	05/26/93
Carbon Disulfide	14	1.0	1.0	05/26/93
Acrolein	ND	1.0	1.0	05/26/93
Methylene Chloride	4.1 B	1.0	1.0	05/26/93
1,1-Dichloroethene	ND	1.0	1.0	05/26/93
1,1-Dichloroethane	ND	1.0	1.0	05/26/93
Acrylonitrile	ND	1.0	1.0	05/26/93
trans-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
Chloroform	ND	1.0	1.0	05/26/93
1,2-Dichloroethane	ND	1.0	1.0	05/26/93
Vinyl Acetate	ND	1.0	1.0	05/26/93
cis-1,2-Dichloroethene	ND	1.0	1.0	05/26/93
2-Butanone (MEK)	4.4	1.0	1.0	05/26/93
1,1,1-Trichloroethane	ND	1.0	1.0	05/26/93
Carbon Tetrachloride	ND	1.0	1.0	05/26/93
Bromodichloromethane	ND	1.0	1.0	05/26/93
1,2-Dichloropropane	ND	1.0	1.0	05/26/93
Dibromomethane	ND	1.0	1.0	05/26/93
trans-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
Trichloroethene	ND	1.0	1.0	05/26/93
Chlorodibromomethane	ND	1.0	1.0	05/26/93
Ethyl Methacrylate	ND	1.0	1.0	05/26/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	05/26/93
1,1,2-Trichloroethane	ND	1.0	1.0	05/26/93
Benzene	ND	1.0	1.0	05/26/93
cis-1,3-Dichloropropene	ND	1.0	1.0	05/26/93
BromoForm	ND	1.0	1.0	05/26/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ1SS FRACTION 06A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:10:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>05/26/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID _____ V1381
 UNITS _____ ug/L
 BATCH_ID WMSVOA-086
 PRCNT_MOIST _____



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-EQ2A FRACTION 07A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:50:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	6.1	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	3.2 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	ND	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93

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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ2A FRACTION 07A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/25/93 09:50:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1521
UNITS ug/L
BATCH_ID WMSVOA-088
PRCNT_MOIST _____



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EQ2SS FRACTION 08A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:40:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	ND	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	4.9 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	2.4	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ2SS FRACTION 08A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:40:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1522
 UNITS ug/L
 BATCH_ID WMSVOA-088
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-BQ3A FRACTION 09A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 10:30:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	ND	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	2.9 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	2.6	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-BQ3A FRACTION 09A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/25/93 10:30:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1523
UNITS ug/L
BATCH_ID WMSVOA-088
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EQ3SS FRACTION 10A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 10:20:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	ND	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	4.9 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	2.3	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93

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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ3SS FRACTION 10A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 10:20:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1524
 UNITS ug/L
 BATCH_ID WMSVOA-088
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-BQ4A FRACTION 11A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 11:15:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	ND	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	2.8 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	4.1	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	2.6	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93

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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ4A FRACTION 11A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 11:15:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	3.9	1.0	1.0	06/06/93
Toluene	3.1	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1525
 UNITS ug/L
 BATCH_ID WMSVOA-088
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-BQ4SS FRACTION 12A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 11:10:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	13	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	5.0 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	3.6	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-EQ4SS FRACTION 12A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 11:10:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID _____ V1526
 UNITS _____ ug/L
 BATCH ID WMSVOA-088
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAPB-05-FB1 FRACTION 13A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 11:55:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	15	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	4.9 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	4.9	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-FB1 FRACTION 13A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/25/93 11:55:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1527
UNITS ug/L
BATCH_ID WMSVOA-088
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-EQ5A FRACTION 14A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 15:20:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	ND	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	3.1 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	ND	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ5A FRACTION 14A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/25/93 15:20:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
2-Hexanone (MBK)	<u>11</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1528
UNITS ug/L
BATCH_ID WMSVOA-088
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-ROSS FRACTION 15A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 15:35:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	16	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	5.0 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	ND	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQSS FRACTION 15A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/25/93 15:35:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1529
UNITS _____ ug/L
BATCH_ID WMSVOA-088
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-AB1 FRACTION 16A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 16:15:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	13	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	3.7 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	4	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93

THIS REPORT MUST NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL LABORATORY VOLUNTARY ACCREDITATION PROGRAM OR ANY OTHER AGENCY OF THE UNITED STATES GOVERNMENT.



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-AB1 FRACTION 16A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/25/93 16:15:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/06/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1530
UNITS ug/L
BATCH_ID WMSVOA-088
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

 SAMPLE ID KAPB-05-10-01-1

 FRACTION 17A

 TEST CODE 8240

 NAME Volatiles in soil

 Date & Time Collected 05/25/93 16:10:00

 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	ND	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0075 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
form	ND	0.0010	1.0	06/05/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-10-01-1 FRACTION 17A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 16:10:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	06/05/93
Tetrachloroethene	ND	0.0010	1.0	06/05/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	06/05/93
2-Hexanone (MBK)	ND	0.0010	1.0	06/05/93
Toluene	ND	0.0010	1.0	06/05/93
Chlorobenzene	ND	0.0010	1.0	06/05/93
Ethylbenzene	ND	0.0010	1.0	06/05/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	06/05/93
Styrene	ND	0.0010	1.0	06/05/93
P/M Xylene	ND	0.0010	1.0	06/05/93
O-Xylene	ND	0.0010	1.0	06/05/93
1,2,3-Trichloropropane	ND	0.0010	1.0	06/05/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1506
 UNITS mg/Kg
 BATCH_ID SMSVOA-100
 PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID KAFB-05-10-02-1 FRACTION 18A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/25/93 16:15:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.060	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0075 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-179

Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-10-02-1 FRACTION 18A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/25/93 16:15:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	ND	0.0010	1.0	06/05/93
Tetrachloroethene	ND	0.0010	1.0	06/05/93
1,1,2,2-Tetrachloroethane	ND	0.0010	1.0	06/05/93
2-Hexanone (MBK)	ND	0.0010	1.0	06/05/93
Toluene	ND	0.0010	1.0	06/05/93
Chlorobenzene	ND	0.0010	1.0	06/05/93
Ethylbenzene	ND	0.0010	1.0	06/05/93
1,4-Dichloro-2-Butene	ND	0.0010	1.0	06/05/93
Styrene	ND	0.0010	1.0	06/05/93
P/M Xylene	ND	0.0010	1.0	06/05/93
O-Xylene	ND	0.0010	1.0	06/05/93
1,2,3-Trichloropropane	ND	0.0010	1.0	06/05/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1507
UNITS _____ mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/25/93

Results by Sample

SAMPLE ID TRIP BLANK 1 FRACTION 19A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:00:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/06/93
Chloromethane	ND	1.0	1.0	06/06/93
Iodomethane	ND	1.0	1.0	06/06/93
Acetone	ND	1.0	1.0	06/06/93
Bromomethane	ND	1.0	1.0	06/06/93
Vinyl Chloride	ND	1.0	1.0	06/06/93
Chloroethane	ND	1.0	1.0	06/06/93
Trichlorofluoromethane	ND	1.0	1.0	06/06/93
Ethanol	ND	1.0	1.0	06/06/93
Carbon Disulfide	ND	1.0	1.0	06/06/93
Acrolein	ND	1.0	1.0	06/06/93
Methylene Chloride	2.3 B	1.0	1.0	06/06/93
1,1-Dichloroethene	ND	1.0	1.0	06/06/93
1,1-Dichloroethane	ND	1.0	1.0	06/06/93
Acrylonitrile	ND	1.0	1.0	06/06/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
Chloroform	ND	1.0	1.0	06/06/93
1,2-Dichloroethane	ND	1.0	1.0	06/06/93
Vinyl Acetate	ND	1.0	1.0	06/06/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/06/93
2-Butanone (MEK)	ND	1.0	1.0	06/06/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/06/93
Carbon Tetrachloride	ND	1.0	1.0	06/06/93
Bromodichloromethane	ND	1.0	1.0	06/06/93
1,2-Dichloropropane	ND	1.0	1.0	06/06/93
Dibromomethane	ND	1.0	1.0	06/06/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Trichloroethene	ND	1.0	1.0	06/06/93
Chlorodibromomethane	ND	1.0	1.0	06/06/93
Ethyl Methacrylate	ND	1.0	1.0	06/06/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/06/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/06/93
Benzene	ND	1.0	1.0	06/06/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/06/93
Bromoform	ND	1.0	1.0	06/06/93



Received: 05/25/93

Results by Sample

Continued From Above

SAMPLE ID TRIP BLANK 1 FRACTION 19A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/25/93 09:00:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/06/93
Tetrachloroethene	ND	1.0	1.0	06/06/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/06/93
2-Hexanone (MBK)	ND	1.0	1.0	06/06/93
Toluene	ND	1.0	1.0	06/06/93
Chlorobenzene	ND	1.0	1.0	06/06/93
Ethylbenzene	ND	1.0	1.0	06/06/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/06/93
Styrene	ND	1.0	1.0	06/06/93
P/M Xylene	ND	1.0	1.0	06/06/93
O-Xylene	ND	1.0	1.0	06/06/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/06/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1531
 UNITS ug/L
 BATCH_ID WMSVOA-088
 PRCNT_MOIST _____



SECTION II.C

AAL WORK ORDER ID # 9305185 ANALYTICAL REPORT

Assagai Analytical Labs
 7300 Jefferson NE
 Albuquerque, NM 87109

Attn: MARLEAH M. MARTIN
 Phone: (505) 345-8964

PHILLIPS LABORATORY/EMD
 3651 LOWERY AVE. SE
 ALBUQUERQUE, NM 87117-5777

Order #: 93-05-185
 Date: 06/10/93 15:21
 Work ID: KAFB
 Date Received: 05/26/93
 Date Completed: 06/10/93

Attn: MARSHA CARRA/WALTER DARR

Purchase Order: F29650-93-D0008-5000
 Invoice Number:

Client Code: PHI08

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	KAFB-05-14-01-1	10	KAFB-05-EQ9SS
02	KAFB-05-14-02-1	11	KAFB-05-EQ8A
03	KAFB-05-13-01-1	12	KAFB-05-EQ8SS
04	KAFB-05-12-01-1	13	KAFB-05-EQ7A
05	KAFB-05-12-02-1	14	KAFB-05-EQ7SS
06	KAFB-05-11-01-1	15	TRIP BLANK
07	KAFB-05-EQ6SS	16	KAFB-05-AMB
08	KAFB-05-EQ6A	17	KAFB-05-FBS
09	KAFB-05-EQ9A		



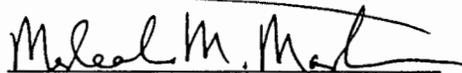
Order # 93-05-185

Assaigai Analytical Labs

Page 2

06/10/93 15:21

ND = None Detected D_F = Dilution Factor NT = Not Tested
B = Analyte was present in the blank J = Estimated value
E = Estimated Value, Concentration exceeds calibration range
MULTIPLY THE LIMIT BY THE DILUTION FACTOR.



Certified By
Marleah Martin



Page 1

Received: 05/26/93

REPORT

Work Order # 93-05-185

Results by Sample

SAMPLE ID KAFB-05-14-01-1

FRACTION 01A TEST CODE 8240 NAME Volatiles in soil

Date & Time Collected 05/26/93 08:40:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.027	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0056 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-14-01-1 FRACTION 01A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/26/93 08:40:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1508
UNITS mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-14-02-1 FRACTION 02A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/26/93 08:45:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	ND	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0045 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-14-02-1 FRACTION 02A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/26/93 08:45:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1509
UNITS _____ mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-13-01-1 FRACTION 03A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/26/93 09:10:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.10	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0069 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Form	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-13-01-1 FRACTION 03A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/26/93 09:10:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1510
UNITS mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-12-01-1 FRACTION 04A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/26/93 09:50:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.039	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0075 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAPB-05-12-01-1 FRACTION 04A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/26/93 09:50:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1511
UNITS mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-12-02-1 FRACTION 05A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/26/93 09:53:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.032	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0069 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Form	ND	0.0010	1.0	06/05/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-12-02-1 FRACTION 05A TEST CODE 8240 NAME Volatiles in soil
Date & Time Collected 05/26/93 09:53:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1512
UNITS mg/Kg
BATCH_ID SMSVOA-100
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-11-01-1

FRACTION 06A

TEST CODE 8240

NAME Volatiles in soil

Date & Time Collected 05/26/93 10:25:00

Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	0.0010	1.0	06/05/93
Chloromethane	ND	0.0010	1.0	06/05/93
Iodomethane	ND	0.0010	1.0	06/05/93
Acetone	0.029	0.0010	1.0	06/05/93
Bromomethane	ND	0.0010	1.0	06/05/93
Vinyl Chloride	ND	0.0010	1.0	06/05/93
Chloroethane	ND	0.0010	1.0	06/05/93
Trichlorofluoromethane	ND	0.0010	1.0	06/05/93
Ethanol	ND	0.0010	1.0	06/05/93
Carbon Disulfide	ND	0.0010	1.0	06/05/93
Acrolein	ND	0.0010	1.0	06/05/93
Methylene Chloride	0.0052 B	0.0010	1.0	06/05/93
1,1-Dichloroethene	ND	0.0010	1.0	06/05/93
1,1-Dichloroethane	ND	0.0010	1.0	06/05/93
Acrylonitrile	ND	0.0010	1.0	06/05/93
trans-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
Chloroform	ND	0.0010	1.0	06/05/93
1,2-Dichloroethane	ND	0.0010	1.0	06/05/93
Vinyl Acetate	ND	0.0010	1.0	06/05/93
cis-1,2-Dichloroethene	ND	0.0010	1.0	06/05/93
2-Butanone (MEK)	ND	0.0010	1.0	06/05/93
1,1,1-Trichloroethane	ND	0.0010	1.0	06/05/93
Carbon Tetrachloride	ND	0.0010	1.0	06/05/93
Bromodichloromethane	ND	0.0010	1.0	06/05/93
1,2-Dichloropropane	ND	0.0010	1.0	06/05/93
Dibromomethane	ND	0.0010	1.0	06/05/93
trans-1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Trichloroethene	ND	0.0010	1.0	06/05/93
Chlorodibromomethane	ND	0.0010	1.0	06/05/93
Ethyl Methacrylate	ND	0.0010	1.0	06/05/93
2-Chloroethylvinyl Ether	ND	0.0010	1.0	06/05/93
1,1,2-Trichloroethane	ND	0.0010	1.0	06/05/93
Benzene	ND	0.0010	1.0	06/05/93
1,3-Dichloropropene	ND	0.0010	1.0	06/05/93
Form	ND	0.0010	1.0	06/05/93



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Received: 05/26/93

REPORT

Results by Sample

Work Order # 93-05-185

Continued From Above

SAMPLE ID KAFB-05-11-01-1 FRACTION 06A TEST CODE 8240 NAME Volatiles in soil
 Date & Time Collected 05/26/93 10:25:00 Category SOIL

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Tetrachloroethene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Toluene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Chlorobenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Ethylbenzene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
Styrene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
P/M Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
O-Xylene	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>0.0010</u>	<u>1.0</u>	<u>06/05/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1513
 UNITS mg/Kg
 BATCH_ID SMSVOA-100
 PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-EQ6SS FRACTION 07A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 05:30:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	39	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	2.4	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	8.0 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	14	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-E06SS FRACTION 07A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 05:30:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1563
UNITS ug/L
BATCH ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAPB-05-EQ6A FRACTION 08A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 08:20:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	ND	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	5.7 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93



Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ6A FRACTION 08A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 08:20:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/08/93
Tetrachloroethene	ND	1.0	1.0	06/08/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/08/93
2-Hexanone (MBK)	ND	1.0	1.0	06/08/93
Toluene	ND	1.0	1.0	06/08/93
Chlorobenzene	ND	1.0	1.0	06/08/93
Ethylbenzene	ND	1.0	1.0	06/08/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/08/93
Styrene	ND	1.0	1.0	06/08/93
P/M Xylene	ND	1.0	1.0	06/08/93
O-Xylene	ND	1.0	1.0	06/08/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/08/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID _____ V1564
 UNITS _____ ug/L
 BATCH_ID WMSVOA-089
 PRcnt_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-EQ9A FRACTION 09A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 10:10:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	ND	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	6.8 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ9A FRACTION 09A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 10:10:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/08/93
Tetrachloroethene	ND	1.0	1.0	06/08/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/08/93
2-Hexanone (MBK)	ND	1.0	1.0	06/08/93
Toluene	ND	1.0	1.0	06/08/93
Chlorobenzene	ND	1.0	1.0	06/08/93
Ethylbenzene	ND	1.0	1.0	06/08/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/08/93
Styrene	ND	1.0	1.0	06/08/93
P/M Xylene	ND	1.0	1.0	06/08/93
O-Xylene	ND	1.0	1.0	06/08/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/08/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1565
UNITS ug/L
BATCH_ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-BQ9SS FRACTION 10A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 10:17:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	ND	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	9.3 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	3.1	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93



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Received: 05/26/93

REPORT

Results by Sample

Work Order # 93-05-185

Continued From Above

SAMPLE ID KAFB-05-EQ9SS FRACTION 10A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 10:17:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1566
UNITS _____ uq/L
BATCH_ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-E08A FRACTION 11A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 09:35:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	ND	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	7.3 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ8A FRACTION 11A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 09:35:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ V1567
UNITS _____ ug/L
BATCH_ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-EQ8SS FRACTION 12A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 09:43:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	ND	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	8.3 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93

THIS REPORT MUST NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL LABORATORY VOLUNTARY ACCREDITATION PROGRAM OR ANY OTHER AGENCY OF THE UNITED STATES GOVERNMENT.



Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ8SS FRACTION 12A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 09:43:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/08/93
Tetrachloroethene	ND	1.0	1.0	06/08/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/08/93
2-Hexanone (MBK)	ND	1.0	1.0	06/08/93
Toluene	ND	1.0	1.0	06/08/93
Chlorobenzene	ND	1.0	1.0	06/08/93
Ethylbenzene	ND	1.0	1.0	06/08/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/08/93
Styrene	ND	1.0	1.0	06/08/93
P/M Xylene	ND	1.0	1.0	06/08/93
O-Xylene	ND	1.0	1.0	06/08/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/08/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1560
 UNITS ug/L
 BATCH_ID WMSVOA-089
 PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-EQ7A FRACTION 13A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 09:00:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	7.4	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	4.7 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93

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Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-EQ7A FRACTION 13A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 09:00:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/08/93
Tetrachloroethene	ND	1.0	1.0	06/08/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/08/93
2-Hexanone (MBK)	ND	1.0	1.0	06/08/93
Toluene	ND	1.0	1.0	06/08/93
Chlorobenzene	ND	1.0	1.0	06/08/93
Ethylbenzene	ND	1.0	1.0	06/08/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/08/93
Styrene	ND	1.0	1.0	06/08/93
P/M Xylene	ND	1.0	1.0	06/08/93
O-Xylene	ND	1.0	1.0	06/08/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/08/93

Notes and Definitions for this Report:

EXTRACTED _____
 ANALYST JS
 FILE ID V1561
 UNITS ug/L
 BATCH_ID WMSVOA-089
 PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-EQ7SS FRACTION 14A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 09:06:00 Category WATE4R

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	8.9	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	6.8 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93

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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-E07SS FRACTION 14A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 09:06:00 Category WATR4R

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1562
UNITS ug/L
BATCH_ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID TRIP BLANK FRACTION 15A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	ND	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	5.1 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	ND	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93



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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID TRIP BLANK FRACTION 15A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1568
UNITS ug/L
BATCH_ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-AMB FRACTION 16A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 10:45:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	35	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	7.4 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	12	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93

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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-AMB FRACTION 16A TEST CODE W8240 NAME Volatiles in water
Date & Time Collected 05/26/93 10:45:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	ND	1.0	1.0	06/08/93
Tetrachloroethene	ND	1.0	1.0	06/08/93
1,1,2,2-Tetrachloroethane	ND	1.0	1.0	06/08/93
2-Hexanone (MBK)	ND	1.0	1.0	06/08/93
Toluene	ND	1.0	1.0	06/08/93
Chlorobenzene	ND	1.0	1.0	06/08/93
Ethylbenzene	ND	1.0	1.0	06/08/93
1,4-Dichloro-2-Butene	ND	1.0	1.0	06/08/93
Styrene	ND	1.0	1.0	06/08/93
P/M Xylene	ND	1.0	1.0	06/08/93
O-Xylene	ND	1.0	1.0	06/08/93
1,2,3-Trichloropropane	ND	1.0	1.0	06/08/93

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID V1569
UNITS ug/L
BATCH ID WMSVOA-089
PRCNT_MOIST _____



Received: 05/26/93

Results by Sample

SAMPLE ID KAFB-05-FBS FRACTION 17A TEST CODE W8240 NAME Volatiles in water
 Date & Time Collected 05/26/93 10:40:00 Category WATER

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Dichlorodifluoromethane	ND	1.0	1.0	06/08/93
Chloromethane	ND	1.0	1.0	06/08/93
Iodomethane	ND	1.0	1.0	06/08/93
Acetone	36	1.0	1.0	06/08/93
Bromomethane	ND	1.0	1.0	06/08/93
Vinyl Chloride	ND	1.0	1.0	06/08/93
Chloroethane	ND	1.0	1.0	06/08/93
Trichlorofluoromethane	ND	1.0	1.0	06/08/93
Ethanol	ND	1.0	1.0	06/08/93
Carbon Disulfide	ND	1.0	1.0	06/08/93
Acrolein	ND	1.0	1.0	06/08/93
Methylene Chloride	8.2 B	1.0	1.0	06/08/93
1,1-Dichloroethene	ND	1.0	1.0	06/08/93
1,1-Dichloroethane	ND	1.0	1.0	06/08/93
Acrylonitrile	ND	1.0	1.0	06/08/93
trans-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
Chloroform	ND	1.0	1.0	06/08/93
1,2-Dichloroethane	ND	1.0	1.0	06/08/93
Vinyl Acetate	ND	1.0	1.0	06/08/93
cis-1,2-Dichloroethene	ND	1.0	1.0	06/08/93
2-Butanone (MEK)	13	1.0	1.0	06/08/93
1,1,1-Trichloroethane	ND	1.0	1.0	06/08/93
Carbon Tetrachloride	ND	1.0	1.0	06/08/93
Bromodichloromethane	ND	1.0	1.0	06/08/93
1,2-Dichloropropane	ND	1.0	1.0	06/08/93
Dibromomethane	ND	1.0	1.0	06/08/93
trans-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Trichloroethene	ND	1.0	1.0	06/08/93
Chlorodibromomethane	ND	1.0	1.0	06/08/93
Ethyl Methacrylate	ND	1.0	1.0	06/08/93
2-Chloroethylvinyl Ether	ND	1.0	1.0	06/08/93
1,1,2-Trichloroethane	ND	1.0	1.0	06/08/93
Benzene	ND	1.0	1.0	06/08/93
cis-1,3-Dichloropropene	ND	1.0	1.0	06/08/93
Bromoform	ND	1.0	1.0	06/08/93

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REPORT

Work Order # 93-05-185

Received: 05/26/93

Results by Sample

Continued From Above

SAMPLE ID KAFB-05-FBS FRACTION 17A TEST CODE WB240 NAME Volatiles in water
Date & Time Collected 05/26/93 10:40:00 Category WATER

4-Methyl-2-Pentanone (MIBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Tetrachloroethene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,1,2,2-Tetrachloroethane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
2-Hexanone (MBK)	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Toluene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Chlorobenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Ethylbenzene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,4-Dichloro-2-Butene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
Styrene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
P/M Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
O-Xylene	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>
1,2,3-Trichloropropane	<u>ND</u>	<u>1.0</u>	<u>1.0</u>	<u>06/08/93</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JS
FILE ID _____ 1570
UNITS _____ ug/L
BATCH_ID WMSVOA-089
PRCNT_MOIST _____



SECTION III

QC NARRATIVES AND SUMMARIES

SECTION III.A

AAL WORK ORDER ID # 9305170 QC NARRATIVES AND SUMMARIES

THIS SECTION INCLUDES THE FOLLOWING QC BATCH ID NUMBERS:

**WMSVOA-085
WMSVOA-086
SMSVOA-098**

QC BATCH ID # WMSVOA-085

QC Batch WMSVOA-085 was analyzed on 05/25/93 by EPA SW 846 Method 8240, for AAL Work Order ID Number 93-05-170, and includes KAFB Samples (AAL Sample ID Numbers) 9305170-04, 9305170-05, 9305170-06, 9305170-07, 9305170-08, 9305170-09, and 9305170-10.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes with the exceptions of Bromomethane, Chloroethane, and Acrolein. Bromomethane demonstrated a recovery which was approximately eight percent (8%) outside the method criteria of twenty-five percent (25%). The lower response for this compound in the daily calibration check will not impair the identification for this analyte. In fact, AAL's sensitivity for this analyte, verified by the initial calibration and actual ability to detect responses below the listed detection limit, i.e., based on area counts, ensures this slightly low response in the calibration check does not impact the identification of this analyte if present in any of the associated samples. The KAFB samples associated with this analytical batch indicated no area counts were observed, and therefore, a positive response for this analyte was not evident. Based on evaluation of the analytical data and instrument sensitivity for this analyte, no impact is evident for the analytical data, as reported.

Additionally, Chloroethane and Acrolein demonstrated responses higher than the method criteria of twenty-five percent (25%). The higher response indicates greater sensitivity for these analytes. Specifically, these higher responses mean that the instrument is "more sensitive", and would yield a potential positive bias in the associated samples if Chloroethane and/or Acrolein were present. Since NO response was observed in the associated samples, i.e., this potential positive bias was not evident, the higher responses in the daily calibration check have no effect on the sample data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes, except 1.3 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

SURROGATES

All samples and QC samples demonstrated acceptable recoveries for all surrogates added.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Laboratory Control Samples (LCS) and MS/MSD analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-294
Batch ID	WMSVOA-85	MS/MSD Sample ID	5170-4
Date Analyzed	5/25/93	Concentration Units	PPB
Matrix	Water		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	100	ND	91.2	N/A	91	N/A	N/A
Trichloroethene	100	ND	92.7	N/A	93	N/A	N/A
Benzene	100	ND	89.0	N/A	89	N/A	N/A
Toluene	100	ND	94.1	N/A	94	N/A	N/A
Chlorobenzene	100	ND	91.5	N/A	92	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	100	ND	93.5	93.2	94	93	< 1.0
Trichloroethene	100	ND	95.7	94.6	96	95	1.2
Benzene	100	ND	95.3	96.5	95	97	1.3
Toluene	100	ND	99.4	98.4	99	98	1.0
Chlorobenzene	100	ND	95.9	95.0	96	95	0.9

COMMENTS	WORK ORDRS INCLUDED IN BATCH:5170,5137

QC LIMITS*	
Water	
% Rec.	RPD

1,1-Dichloroethene	61 - 145	14
Trichloroethene	71 - 120	14
Benzene	75 - 130	11
Toluene	76 - 125	13
Chlorobenzene	76 - 127	13

* Reference CLP QC Acceptance Limits (2/88)

QC BATCH ID # WMSVOA-086

QC Batch WMSVOA-086 was analyzed on 05/26/93 by EPA SW 846 Method 8240, for AAL Work Order ID Numbers 93-05-170 and 93-05-179, and includes KAFB Samples (AAL Sample ID Numbers) 9305170-11, 9305170-14, 9305170-15, 9305170-16, 9305170-17, 9305170-18, 9305179-05, and 9305179-06.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes, with the exception of Bromomethane, which was approximately five percent (5%) outside the method criteria of twenty-five percent (25%). The lower response for this compound in the daily calibration check will not impair the identification for this analyte. In fact, AAL's sensitivity for this analyte, verified by the initial calibration and actual ability to detect responses below the listed detection limit, i.e., based on area counts, ensures this slightly low response in the calibration check does not impact the identification of this analyte if present in any of the associated samples. The KAFB samples associated with this analytical batch indicated no area counts were observed, and therefore, a positive response for this analyte was not evident. Based on evaluation of the analytical data and instrument sensitivity for this analyte, no impact is evident for the analytical data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes, except 1.3 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

SURROGATES

All samples and QC samples demonstrated acceptable recoveries for all surrogates added.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-296
Batch ID	WMSVOA-86	MS/MSD Sample ID	5179-5
Date Analyzed	5/26/93	Concentration Units	PPB
Matrix	Water		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	100	ND	89.6	N/A	90	N/A	N/A
Trichloroethene	100	ND	100.6	N/A	101	N/A	N/A
Benzene	100	ND	90.7	N/A	91	N/A	N/A
Toluene	100	ND	98.0	N/A	98	N/A	N/A
Chlorobenzene	100	ND	96.4	N/A	96	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	100	ND	104.6	107.3	105	107	2.5
Trichloroethene	100	ND	99.6	99.2	100	99	< 1.0
Benzene	100	ND	114.2	116.5	114	116	2.0
Toluene	100	ND	114.7	116.1	115	116	1.2
Chlorobenzene	100	ND	107.9	107.3	108	107	< 1.0

COMMENTS	WORK ORDRS INCLUDED IN BATCH:5179,5170

QC LIMITS*	
Water	
% Rec.	RPD

1,1-Dichloroethene	61 - 145	14
Trichloroethene	71 - 120	14
Benzene	75 - 130	11
Toluene	76 - 125	13
Chlorobenzene	76 - 127	13

* Reference CLP QC Acceptance Limits (2/88)

QC BATCH ID # SMSVOA-098

QC Batch SMSVOA-098 was analyzed on 05/27/93 by EPA SW 846 Method 8240, for AAL Work Order ID Number 93-05-170, and includes KAFB Samples (AAL Sample ID Numbers) 9305170-01, 9305170-02, 9305170-03, 9305170-12, and 9305170-13.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes with the exception of Chloroethane, which was higher than the method criteria of twenty-five percent (25%). This higher response indicates greater sensitivity for Chloroethane. Specifically, this higher response means that the instrument is "more sensitive", and would yield a potential positive bias in the associated samples if Chloroethane were present. Since NO response was observed in the associated samples, i.e., this potential positive bias was not evident, the higher response in the daily calibration check has no effect on the sample data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes except for 2.1 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

In addition, one (1) of the LMBs analyzed with this sequence exhibited a slightly high recovery for surrogate 1,2 Dichloroethane- D_4 (S1), i.e., approximately five percent (5%) above the QC acceptance limits, while the other LMB exhibited acceptable surrogate recoveries. This slightly high bias was not evident in the associated batch analyses, and appears to be isolated to the one (1) LMB analyses only; therefore, no impact is evident on the associated data, as reported.

SURROGATES

All samples and QC samples demonstrated acceptable surrogate recoveries, except for sample 9305170-02's recovery for the second surrogate (Toluene- D_8), which was above QC limits. This higher recovery, however, was not evident in the associated sample results, i.e., a positive bias

and/or result was not observed that could be attributed or related to this surrogate's response. All other Batch QC demonstrated acceptable surrogate and spike recoveries, indicating that the high recovery is an isolated event and might be matrix-related. All data is deemed valid and acceptable, based on acceptable QA/QC analyses, verifying the analytical sequence.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-295
Batch ID	SMSVOA-98	MS/MSD Sample ID	5170-13
Date Analyzed	5/27/93	Concentration Units	PPM (mg/Kg)
Matrix	Soil		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD

1,1-Dichloroethene	0.1	ND	109.0	N/A	109	N/A	N/A
Trichloroethene	0.1	ND	103.4	N/A	103	N/A	N/A
Benzene	0.1	ND	106.3	N/A	106	N/A	N/A
Toluene	0.1	ND	113.8	N/A	114	N/A	N/A
Chlorobenzene	0.1	ND	105.9	N/A	106	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD

1,1-Dichloroethene	0.1	ND	0.112	0.109	112	109	2.7
Trichloroethene	0.1	ND	0.098	0.096	98	96	2.1
Benzene	0.1	ND	0.105	0.099	105	99	5.9
Toluene	0.1	ND	0.117	0.111	117	111	5.3
Chlorobenzene	0.1	ND	0.107	0.101	107	101	5.8

COMMENTS	WORK ORDRES INCLUDED IN BATCH:5170

QC LIMITS*	
Soil	
% Rec.	RPD

1,1-Dichloroethene	59 - 172	22
Trichloroethene	62 - 137	24
Benzene	66 - 142	21
Toluene	59 - 139	21
Chlorobenzene	60 - 133	21

* Reference CLP QC Acceptance Limits (2/88)

SECTION III.B

AAL WORK ORDER ID # 9305179 QC NARRATIVES AND SUMMARIES

THIS SECTION INCLUDES THE FOLLOWING QC BATCH ID NUMBERS:

**WMSVOA-086
SMSVOA-099
SMSVOA-100
WMSVOA-088**

QC BATCH ID # WMSVOA-086

QC Batch WMSVOA-086 was analyzed on 05/26/93 by EPA SW 846 Method 8240, for AAL Work Order ID Numbers 93-05-170 and 93-05-179, and includes KAFB Samples (AAL Sample ID Numbers) 9305170-11, 9305170-14, 9305170-15, 9305170-16, 9305170-17, 9305170-18, 9305179-05, and 9305179-06.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes, with the exception of Bromomethane, which was approximately five percent (5%) outside the method criteria of twenty-five percent (25%). The lower response for this compound in the daily calibration check will not impair the identification for this analyte. In fact, AAL's sensitivity for this analyte, verified by the initial calibration and actual ability to detect responses below the listed detection limit, i.e., based on area counts, ensures this slightly low response in the calibration check does not impact the identification of this analyte if present in any of the associated samples. The KAFB samples associated with this analytical batch indicated no area counts were observed, and therefore, a positive response for this analyte was not evident. Based on evaluation of the analytical data and instrument sensitivity for this analyte, no impact is evident for the analytical data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes, except 1.3 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

SURROGATES

All samples and QC samples demonstrated acceptable recoveries for all surrogates added.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-296
Batch ID	WMSVOA-86	MS/MSD Sample ID	5179-5
Date Analyzed	5/26/93	Concentration Units	PPB
Matrix	Water		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	100	ND	89.6	N/A	90	N/A	N/A
Trichloroethene	100	ND	100.6	N/A	101	N/A	N/A
Benzene	100	ND	90.7	N/A	91	N/A	N/A
Toluene	100	ND	98.0	N/A	98	N/A	N/A
Chlorobenzene	100	ND	96.4	N/A	96	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	100	ND	104.6	107.3	105	107	2.5
Trichloroethene	100	ND	99.6	99.2	100	99	< 1.0
Benzene	100	ND	114.2	116.5	114	116	2.0
Toluene	100	ND	114.7	116.1	115	116	1.2
Chlorobenzene	100	ND	107.9	107.3	108	107	< 1.0

COMMENTS	WORK ORDRS INCLUDED IN BATCH:5179,5170

QC LIMITS*	
Water	
% Rec.	RPD

1,1-Dichloroethene	61 - 145	14
Trichloroethene	71 - 120	14
Benzene	75 - 130	11
Toluene	76 - 125	13
Chlorobenzene	76 - 127	13

* Reference CLP QC Acceptance Limits (2/88)

QC BATCH ID # SMSVOA-099

QC Batch SMSVOA-079 was analyzed on 06/04/93 by EPA SW 846 Method 8240, for AAL Work Order ID Number 93-05-179, and includes KAFB Samples (AAL Sample ID Numbers) 9305179-01 and 9305179-02.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes except for 1.6 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

SURROGATES

All samples and QC samples demonstrated acceptable recoveries for the second and third surrogates (Toluene- D_8 and Bromofluorobenzene). However, the first surrogate (1,2 Dichloroethane- D_4) was approximately five percent (5%) above QC limits in the LMB, and approximately four percent (4%) above QC limits in samples 9305179-01 and 9305179-02 and in the associated Matrix Spike/Matrix Spike Duplicate (MS/MSD). The slightly higher increase in sensitivity for these surrogates does not affect analyte identification. The potential bias that might be attributed to these higher surrogate recoveries would be a slightly higher "positive" response for similar compounds. The only positive responses observed for these samples was for MeCl_2 , which can be attributed to potential laboratory contamination, and are already flagged accordingly. All other QC Batch analyses demonstrated acceptable spike and surrogate recoveries, and therefore no direct impact is evident on the associated data. The QC Batch analyses are deemed valid and acceptable, as reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-300
Batch ID	SMSVOA-99	MS/MSD Sample ID	5179-2
Date Analyzed	6/4/93	Concentration Units	PPM (mg/Kg)
Matrix	Soil		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD

1,1-Dichloroethene	0.1	ND	107.3	N/A	107	N/A	N/A
Trichloroethene	0.1	ND	90.9	N/A	91	N/A	N/A
Benzene	0.1	ND	107.7	N/A	108	N/A	N/A
Toluene	0.1	ND	110.3	N/A	110	N/A	N/A
Chlorobenzene	0.1	ND	101.4	N/A	101	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD

1,1-Dichloroethene	0.1	ND	0.109	0.111	109	111	1.8
Trichloroethene	0.1	ND	0.089	0.087	89	87	2.3
Benzene	0.1	ND	0.129	0.109	129	109	16.8
Toluene	0.1	ND	0.107	0.106	107	106	0.9
Chlorobenzene	0.1	ND	0.099	0.098	99	98	1.0

COMMENTS	WORK ORDRES INCLUDED IN BATCH:5179

QC LIMITS*	
Soil	
% Rec.	RPD

1,1-Dichloroethene	59 - 172	22
Trichloroethene	62 - 137	24
Benzene	66 - 142	21
Toluene	59 - 139	21
Chlorobenzene	60 - 133	21

* Reference CLP QC Acceptance Limits (2/88)

QC BATCH ID # SMSVOA-100

QC Batch SMSVOA-100 was analyzed on 06/05/93 by EPA SW 846 Method 8240, for AAL Work Order ID Numbers 93-05-179 and 93-05-185, and includes KAFB Samples (AAL Sample ID Numbers) 9305179-03, 9305179-04, 9305179-17, 9305179-18, 9305185-01, and 9305185-06.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes with the exceptions of Freon-12, Bromomethane, Trichlorofluoromethane, and Chloroethane, which were higher than the method criteria of twenty-five percent (25%). These higher responses indicate greater sensitivity for Freon-12, Bromomethane, Trichlorofluoromethane, and Chloroethane. Specifically, these higher responses mean that the instrument is "more sensitive", and would yield a potential positive bias in the associated sample if these compounds were present. Since NO response was observed in the associated samples, i.e., this potential positive bias was not evident, the higher responses in the daily calibration check have no effect on the sample data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes except for 5.9 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". All analytical sequences performed for this project indicated the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of this batch analyses. When results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. In this one (1) instance, another blank was analyzed that produced similar results; subsequently, the data was further evaluated. It was determined that the batch analyses were deemed acceptable, since the out-of-control event could be isolated to this one (1) analyte. This is confirmed by previous and subsequent analytical batches that do not indicate a similar problem of the LMB containing MeCl_2 above the five (5) times rule. Furthermore, based on the consistent pattern of MeCl_2 observed throughout the analytical sequences for this project, it can be assumed that the MeCl_2 is attributed to laboratory background, and therefore has no direct impact on the data, as reported, and/or the useability of the analytical results for this analyte. That is, AAL utilized the EPA CLP qualifiers for evaluating blank contamination similar to the other analytical batches evaluated for this project. AAL based this decision on the observations itemized above regarding MeCl_2 , i.e., the data useability is unaffected by the higher MeCl_2 observed in the LMB for this analytical sequence. Therefore, AAL evaluated the analytical data and utilized the "B" Qualifier when MeCl_2 was detected in the sample and also detected in any associated blank. The analytical result for that compound was qualified with a "B" Qualifier when the sample concentration was observed at less than ten (10) times the blank concentration. This qualifier indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken. The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only.

SURROGATES

All associated samples and QC samples in this analytical sequence demonstrated acceptable surrogate recoveries, except for one (1) LMB and samples 9305179-17, 9305179-18, and 9305185-01, which demonstrated a higher recovery for the first surrogate (1,2 Dichloroethane- D_4). The slight increase in sensitivity for this surrogate does not affect analyte

identification. The potential bias that might be attributed to this higher recovery would be a slightly higher "positive" response for similar compounds. The only positive responses observed for this analytical sequence and associated field QC analyses indicate that the MeCl₂ and Acetone observed in these samples can be attributed to background, i.e., laboratory and sampling, contamination, and should be evaluated accordingly. All other QC Batch analyses demonstrated acceptable spike and surrogate recoveries; therefore, this event, i.e., high surrogate recoveries for 1,2 Dichloroethane-D₄, does not affect the sample data, as reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-301
Batch ID	SMSVOA-100	MS/MSD Sample ID	5185-6
Date Analyzed	6/5/93	Concentration Units	PPM (mg/Kg)
Matrix	Soil		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	0.1	ND	104.5	N/A	104	N/A	N/A
Trichloroethene	0.1	ND	94.2	N/A	94	N/A	N/A
Benzene	0.1	ND	102.7	N/A	103	N/A	N/A
Toluene	0.1	ND	109.7	N/A	110	N/A	N/A
Chlorobenzene	0.1	ND	102.8	N/A	103	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	0.1	ND	0.098	0.092	98	92	6.3
Trichloroethene	0.1	ND	0.097	0.091	97	91	6.4
Benzene	0.1	ND	0.098	0.098	98	98	0.0
Toluene	0.1	ND	0.090	0.090	90	90	0.0
Chlorobenzene	0.1	ND	0.091	0.091	91	91	0.0

COMMENTS	WORK ORDRES INCLUDED IN BATCH:5179,5185

QC LIMITS*	
Soil	
% Rec.	RPD

1,1-Dichloroethene	59 - 172	22
Trichloroethene	62 - 137	24
Benzene	66 - 142	21
Toluene	59 - 139	21
Chlorobenzene	60 - 133	21

* Reference CLP QC Acceptance Limits (2/88)

QC BATCH ID # WMSVOA-088

QC Batch WMSVOA-088 was analyzed on 06/01/93 by EPA SW 846 Method 8240, for AAL Work Order ID Number 93-05-179, and includes KAFB Samples (AAL Sample ID Numbers) 9305179-07, 9305179-16, and 9305179-19.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes with the exception of Chloroethane, which was higher than the method criteria of twenty-five percent (25%). This higher response indicates greater sensitivity for Chloroethane. Specifically, this higher response means that the instrument is "more sensitive", and would yield a potential positive bias in the associated sample if Chloroethane were present. Since NO response was observed in the associated samples, i.e., this potential positive bias was not evident, the higher response in the daily calibration check has no effect on the sample data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes except for 1.4 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

SURROGATES

All samples and QC samples demonstrated acceptable recoveries for all surrogates added, with the exception of the LCS for surrogate 1,2 Dichloroethane- D_4 . The slightly higher recovery (approximately two percent [2%]) will not affect analyte identification, only quantification by potentially indicating a slightly higher "positive" response. Since no other samples or QC analyses indicated a similar bias, it appears to be an isolated event, and therefore does not impact the data, as reported, for the associated samples.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240	NCR No.	MS-302
Batch ID	WMSVOA-88	MS/MSD Sample ID	5179-10
Date Analyzed	6/6/93	Concentration Units	PPB
Matrix	Water		

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	100	ND	97.3	N/A	97	N/A	N/A
Trichloroethene	100	ND	91.8	N/A	92	N/A	N/A
Benzene	100	ND	100.2	N/A	100	N/A	N/A
Toluene	100	ND	104.3	N/A	104	N/A	N/A
Chlorobenzene	100	ND	96.7	N/A	97	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	100	ND	91.5	90.9	92	91	0.7
Trichloroethene	100	ND	88.6	84.5	89	84	4.7
Benzene	100	ND	93.0	87.8	93	88	5.8
Toluene	100	ND	86.2	82.1	86	82	4.9
Chlorobenzene	100	ND	87.9	84.3	88	84	4.2

COMMENTS	WORK ORDRS INCLUDED IN BATCH:5179

QC LIMITS*	
Water	
% Rec.	RPD

1,1-Dichloroethene	61 - 145	14
Trichloroethene	71 - 120	14
Benzene	75 - 130	11
Toluene	76 - 125	13
Chlorobenzene	76 - 127	13

* Reference CLP QC Acceptance Limits (2/88)

SECTION III.C

AAL WORK ORDER ID # 9305185 QC NARRATIVES AND SUMMARIES

THIS SECTION INCLUDES THE FOLLOWING QC BATCH ID NUMBERS:

**SMSVOA-100
WMSVOA-089**

QC BATCH ID # SMSVOA-100

QC Batch SMSVOA-100 was analyzed on 06/05/93 by EPA SW 846 Method 8240, for AAL Work Order ID Numbers 93-05-179 and 93-05-185, and includes KAFB Samples (AAL Sample ID Numbers) 9305179-03, 9305179-04, 9305179-17, 9305179-18, 9305185-01, and 9305185-06.

CALIBRATION/LABORATORY CONTROL SAMPLE (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes with the exceptions of Freon-12, Bromomethane, Trichlorofluoromethane, and Chloroethane, which were higher than the method criteria of twenty-five percent (25%). These higher responses indicate greater sensitivity for Freon-12, Bromomethane, Trichlorofluoromethane, and Chloroethane. Specifically, these higher responses mean that the instrument is "more sensitive", and would yield a potential positive bias in the associated sample if these compounds were present. Since NO response was observed in the associated samples, i.e., this potential positive bias was not evident, the higher responses in the daily calibration check have no effect on the sample data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes except for 5.9 µg/L (PPB) of Methylene Chloride (MeCl₂). MeCl₂ is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". All analytical sequences performed for this project indicated the analytical results for MeCl₂ in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of this batch analyses. When results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. In this one (1) instance, another blank was analyzed that produced similar results; subsequently, the data was further evaluated. It was determined that the batch analyses were deemed acceptable, since the out-of-control event could be isolated to this one (1) analyte. This is confirmed by previous and subsequent analytical batches that do not indicate a similar problem of the LMB containing MeCl₂ above the five (5) times rule. Furthermore, based on the consistent pattern of MeCl₂ observed throughout the analytical sequences for this project, it can be assumed that the MeCl₂ is attributed to laboratory background, and therefore has no direct impact on the data, as reported, and/or the useability of the analytical results for this analyte. That is, AAL utilized the EPA CLP qualifiers for evaluating blank contamination similar to the other analytical batches evaluated for this project. AAL based this decision on the observations itemized above regarding MeCl₂, i.e., the data useability is unaffected by the higher MeCl₂ observed in the LMB for this analytical sequence. Therefore, AAL evaluated the analytical data and utilized the "B" Qualifier when MeCl₂ was detected in the sample and also detected in any associated blank. The analytical result for that compound was qualified with a "B" Qualifier when the sample concentration was observed at less than ten (10) times the blank concentration. This qualifier indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken. The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl₂ only.

SURROGATES

All associated samples and QC samples in this analytical sequence demonstrated acceptable surrogate recoveries, except for one (1) LMB and samples 9305179-17, 9305179-18, and 9305185-01, which demonstrated a higher recovery for the first surrogate (1,2 Dichloroethane-D₄). The slight increase in sensitivity for this surrogate does not affect analyte

identification. The potential bias that might be attributed to this higher recovery would be a slightly higher "positive" response for similar compounds. The only positive responses observed for this analytical sequence and associated field QC analyses indicate that the MeCl₂ and Acetone observed in these samples can be attributed to background, i.e., laboratory and sampling, contamination, and should be evaluated accordingly. All other QC Batch analyses demonstrated acceptable spike and surrogate recoveries; therefore, this event, i.e., high surrogate recoveries for 1,2 Dichloroethane-D₄, does not affect the sample data, as reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240
Batch ID	SMSVOA-100
Date Analyzed	6/5/93
Matrix	Soil

NCR No.	MS-301
MS/MSD Sample ID	5185-6
Concentration Units	PPM (mg/Kg)

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	0.1	ND	104.5	N/A	104	N/A	N/A
Trichloroethene	0.1	ND	94.2	N/A	94	N/A	N/A
Benzene	0.1	ND	102.7	N/A	103	N/A	N/A
Toluene	0.1	ND	109.7	N/A	110	N/A	N/A
Chlorobenzene	0.1	ND	102.8	N/A	103	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	0.1	ND	0.098	0.092	98	92	6.3
Trichloroethene	0.1	ND	0.097	0.091	97	91	6.4
Benzene	0.1	ND	0.098	0.098	98	98	0.0
Toluene	0.1	ND	0.090	0.090	90	90	0.0
Chlorobenzene	0.1	ND	0.091	0.091	91	91	0.0

COMMENTS	WORK ORDRES INCLUDED IN BATCH:5179,5185

QC LIMITS*	
Soil	
% Rec.	RPD

1,1-Dichloroethene	59 - 172	22
Trichloroethene	62 - 137	24
Benzene	66 - 142	21
Toluene	59 - 139	21
Chlorobenzene	60 - 133	21

* Reference CLP QC Acceptance Limits (2/88)

QC BATCH ID # WMSVOA-089

QC Batch WMSVOA-089 was analyzed on 06/08/93 by EPA SW 846 Method 8240, for AAL Work Order ID Number 93-05-185, and includes KAFB Samples (AAL Sample ID Numbers) 9305185-07, through 9305185-17.

CALIBRATION/LABORATORY CONTROL SAMPLES (LCS)

The daily calibration check demonstrated acceptable percent differences for all target analytes with the exception of Chloroethane, Bromomethane, and Chloromethane, which were higher than the method criteria of twenty-five percent (25%). These higher responses indicate greater sensitivity for Chloroethane, Bromomethane, and Chloromethane. Specifically, this higher response means that the instrument is "more sensitive", and would yield a potential positive bias in the associated samples if these compounds were present. Since NO response was observed in the associated samples, i.e., this potential positive bias was not evident, the higher responses in the daily calibration check have no effect on the sample data, as reported.

LABORATORY METHOD BLANK (LMB)

The Laboratory Method Blank (LMB) was free of all target analytes except for 4.3 $\mu\text{g/L}$ (PPB) of Methylene Chloride (MeCl_2). MeCl_2 is a common laboratory contaminant, and was observed throughout the analytical sequences performed for this project. AAL routinely assesses the blank results and performs further evaluation with the associated samples. Specifically, AAL employs the EPA CLP Blank evaluation criteria, that is, "A method blank for volatile analysis must contain less than or equal to five (5) times the reporting limit". For all analytical sequences performed for this project, the analytical results for MeCl_2 in the associated blanks all fall within the EPA CLP evaluation criteria, with the exception of one (1) analytical sequence. If the results fall outside this criteria, AAL requires re-analysis and/or corrective action, as appropriate. This analytical sequence indicated acceptable results within this criteria; therefore, AAL performed further evaluation utilizing the EPA CLP qualifiers for evaluating blank contamination. These qualifiers are utilized when any compound is detected in the sample and also detected in any associated blank. The analytical result for that compound is qualified with a "B" Qualifier when the sample concentration is less than five (5) or ten (10) times (depending on the specific compound) the blank concentration. In the instance of MeCl_2 , the results are qualified with a "B" when the sample concentration is less than ten (10) times the blank concentration. This indicates the possibility that the concentration observed might be attributed to laboratory contamination, and therefore should be evaluated accordingly and/or appropriate action taken.

The samples associated with this analytical sequence were reported with a "B" Qualifier for MeCl_2 only. This indicates that this analyte was also found in the associated LMB, and that the samples contained up to ten (10) times the concentration observed in the LMB, and therefore, the analytical batch and associated samples should be evaluated accordingly for this compound.

SAMPLES

All samples and QC samples demonstrated acceptable recoveries for all surrogates added, with the exception of the LCS for surrogate 1,2 Dichloroethane- D_4 . The slightly higher recovery does not affect analyte identification, only potentially quantification if similar "positive" responses are observed. Since no other samples or QC analyses indicated a similar bias for this surrogate, it appears to be an isolated event. Therefore, the data is deemed acceptable and valid, as reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses demonstrated acceptable recoveries and relative percent difference (RPD) for all spiked analytes. These acceptable recoveries and RPDs verify acceptable method performance for accuracy and precision.

QC SUMMARY

Method	8240
Batch ID	WMSVOA-89
Date Analyzed	06/08/93
Matrix	Water

NCR No.	MS-303
MS/MSD Sample ID	5185-15A
Concentration Units	PPB

ANALYTE	LCS/LCSD						
	Spiked Amount	Sample Amount	LCS Amount	LCSD Amount	LCS % Rec.	LCSD % Rec.	RPD
1,1-Dichloroethene	100	ND	95.8	N/A	96	N/A	N/A
Trichloroethene	100	ND	92.3	N/A	92	N/A	N/A
Benzene	100	ND	102.4	N/A	102	N/A	N/A
Toluene	100	ND	107.1	N/A	107	N/A	N/A
Chlorobenzene	100	ND	98.9	N/A	99	N/A	N/A

ANALYTE	MS/MSD						
	Spiked Amount	Sample Amount	MS Amount	MSD Amount	MS % Rec.	MSD % Rec.	RPD
1,1-Dichloroethene	100	ND	99.2	98.3	99	98	0.9
Trichloroethene	100	ND	96.0	94.3	96	94	1.8
Benzene	100	ND	98.6	95.8	99	96	2.9
Toluene	100	ND	93.5	90.1	94	90	3.7
Chlorobenzene	100	ND	96.8	92.3	97	92	4.8

COMMENTS	WORK ORDERS INCLUDED IN BATCH: 5183, 5185, 6034

QC LIMITS*	
Water	
% Rec.	RPD

1,1-Dichloroethene	61 - 145	14
Trichloroethene	71 - 120	14
Benzene	75 - 130	11
Toluene	76 - 125	13
Chlorobenzene	76 - 127	13

* Reference CLP QC Acceptance Limits (2/88)

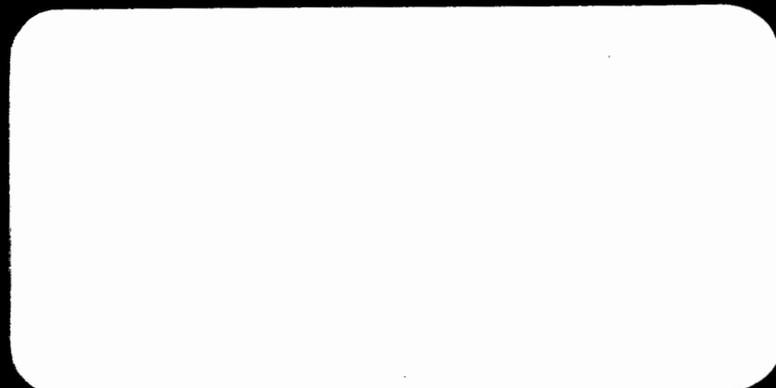
SECTION IV

FIELD NOTES, LITHOGRAPHY, AND BOREHOLE LOGS

GEO-EST



GEO-EST



GEO-EST

GEO-EST

GEO-EST

**SOIL BORING AND SAMPLING
KIRTLAND AIR FORCE BASE
FORMER POND AND
SEWAGE LAGOON SITES
ALBUQUERQUE, NEW MEXICO**

GEO-TEST FILE NO. 1-30514

June 4, 1993
Geo-Test File No. 1-30514

Mr. Dan Moore
Assaigai Analytical Laboratories
7300 Jefferson, N.E.
Albuquerque, New Mexico 87109

RE: KAFB Former Golf Course Pond and Sewage Lagoons
Albuquerque, New Mexico

Mr. Moore:

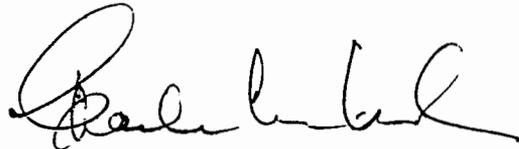
Submitted herein is the Summary Report for the above referenced project. The report contains the results of our field drilling and soil sampling services performed at Kirtland Air Force Base for Assaigai Analytical Laboratories.

It has been a pleasure to serve you on this project. If you should have any questions, please contact this office.

Respectfully submitted:
GEO-TEST, INC.



Steven P. Hockett
Environmental Services Manager



Charles M. Miller, P.E.

cc: Addressee (3)

GEO-TEST, INC.
1220 PARKWAY DRIVE
SANTA FE,
NEW MEXICO
87501
(505) 471-1101

3609 PALO DURO NE
ALBUQUERQUE,
NEW MEXICO
87110
(505) 883-0074

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FIGURES

FIGURE 1	Site Plan - Golf Course Pond
FIGURE 2	Site Plan - Sewage Treatment Lagoons

APPENDICES

APPENDIX A	Boring Logs
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**SOIL BORING AND SAMPLING
FORMER POND AND SEWAGE LAGOON SITES
KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO**

GEO-TEST FILE NO. 1-30514

1.00 INTRODUCTION

This report presents and discusses the results of drilling and soil sampling at a former pond, located at the Kirtland Air Force Base (KAFB) Golf Course, and two sewage treatment lagoons, also located on KAFB. These services were performed in accordance with Geo-Test, Inc's (Geo-Test) Proposal, dated May 6, 1993, which was approved by Ms. Marleah M. Martin of Assaigai Analytical Laboratories (Assaigai).

A summary of findings and related professional opinions are presented in this report and may be subject to modification if subsequent information is developed by Geo-Test and/or others.

2.00 PROJECT OBJECTIVE

The purpose of this investigation was to sample soils in three areas: the former golf course pond and two sewage treatment lagoons (North and South lagoons). We then were to render a concise description of: site location maps with boring locations; drilling and sampling procedures used during this investigation; and a general description of the soils. Please refer to Figure 1 (Golf Course pond) and Figure 2 (sewage treatment lagoons), Site Plans with boring locations.

3.00 GENERAL SOILS

The United States Department of Agriculture Soil Conservation Service (USDA

SCS), "Soil Survey of Bernalillo County and parts of Sandoval and Valencia, New Mexico", was referenced. There are many variable types of soils in and around the golf course pond. They include soils from the following series: Bluepoint; Embudo; Gila; Madurez; and Wink. Geo-Test did not survey the pond site to define its exact location, therefore the exact soils, per SCS Soil Survey description, underlying the pond were not determined.

The soils underlying the sewage treatment lagoon site are described as being a part of the Embudo series. It is described as:

"Embudo gravelly fine sandy loam, 0 to 5 percent slopes. It is level to gently sloping on the East Mesa. This soil developed in alluvium derived from decomposed, coarse grained, granitic rock on old alluvial fans."

A representative profile is described as:

"the surface layer is brown gravelly fine sandy loam about 4 inches thick. Next is about 16 inches of brown and light brownish gray gravelly sandy loam. Below this, to a depth of 60 inches or more is stratified, pale brown gravelly loamy coarse sand."

This soil is further described as being moderately alkaline, moderately permeable in the upper 20 inches (very rapid below 20 inches), with available water capacity of 3 to 4 inches.

During our field investigation, Geo-Test recorded characteristics of the substrata from observations of soil samples and drill cuttings from each boring as they were drilled. It appeared that all sites had been graded prior to construction

resulting in most of the surface soils being rearranged or removed from the study area.

The subsoils observed on the golf course pond site were predominantly fine to medium sands, slightly silty, with some small gravels to a depth of at least 10 feet below ground surface (bgs) or more. General stratigraphy is as follows:

- SAND, slightly silty, some small gravels, non-plastic, brown, medium dense, damp - surface to approximately 8 to over 10 feet bgs.
- SAND, gravelly, non-plastic, brown, medium dense, damp - approximately 8 to over 10 feet bgs.

The subsoils observed in the sewage treatment lagoons are generally described as being predominantly clays that are slightly silty and sandy, to a depth of at least 5 to 7 feet below ground surface (bgs) or more. Below this, silty and clayey sands, with some gravel was observed to a depth of at least 10 feet bgs or more. General stratigraphy is as follows:

- CLAY, silty, sandy, low to medium plasticity, light brown, medium stiff, slightly damp - from 5 to 7 feet bgs.
- SAND, silty, clayey, non-plastic brown, medium dense - 5 to 7 feet to beyond 10 feet bgs.

4.00 SUBSURFACE EXPLORATIONS

The following section describes the drilling and sampling methods employed during our work on site. The number and locations of soil borings drilled on site are also described. Please refer to Appendix A for the Boring Logs.

4.10 Soil Borings and Locations

Soil borings were drilled to the proposed depth of 10 feet bgs, or to practical auger refusal, with soil samples being collected at a depth of 10 feet. The boring locations are shown on Figures 1 and 2. All borings were drilled by Geo-Test personnel using a truck-mounted CME 55 drill rig using hollow stem auger techniques without use of water or drilling fluid. All borings were advanced with 7.5 inch diameter hollow-stem augers. All soil borings were drilled to the proposed depth of 10 feet. Standard Penetration Tests (SPTs) were performed at 10 feet bgs in accordance with the American Society of Testing and Materials (ASTM) Method 1586. In general, SPTs consist of driving a 2-inch split spoon sampler a minimum of 18 inches using a 140-pound hammer dropping 30 inches. The number of blows required to drive the sampler from 6 to 18 inches is the SPT index value or N-value. Boring procedures were observed and soil samples classified from observations of soil cuttings and split spoon samples, then recorded on boring logs by Geo-Test personnel. The drill augers were steam cleaned between borings to prevent cross contamination. Also refer to 4.40 for decontamination procedures.

4.20 Soil Sampling

Soil samples were observed, classified, and sampled by Geo-Test in the following manner: A soil sample was collected from the 2-inch split spoon sampler immediately upon retrieval from the boring and placed in a 4-ounce glass sample jar, fitted with a teflon or septum lined lid. After sealing, each sample was individually labeled then placed into an ice-packed cooler for storage and shipping. Chain of Custody records were completed and accompanied the soil samples to Assaigai Laboratories

environmental chemistry laboratory for analysis. Custody of the soil samples was relinquished to Assaigai upon delivery to their laboratory.

4.30 Quality Assurance/Quality Control Samples

Geo-Test collected QA/QC samples according to the requirements set forth in Assaigai's Proposed Sampling Program (Revision 1 - May 7, 1993) addressed to Mr. Walter Darr at KAFB. These included: duplicate soil samples; trip blank samples included in the coolers supplied by Assaigai; field blank samples; ambient air sample blanks; and equipment blank samples. The following describes the methods used to collect each of these QA/QC sample blanks.

Duplicate samples are soil samples collected in the field, individually labeled, handled and sent to the laboratory for identical analysis as the investigative samples. They were submitted "blind" to the laboratory to assure unbiased treatment.

Trip blanks were prepared in the laboratory and placed in each cooler to be delivered to the field for soil and field sample collection. These trip blanks were prepared in 2-40 ml volatile organic compound sample containers (VOA), fitted with septum lids, then sealed and individually labeled. They were kept with investigative samples as they were collected and processed, then transported to the laboratory along with the investigative samples. They were **not** opened at any time after their preparation until they were returned to the laboratory.

Field blank samples were prepared in the field by placing reagent grade deionized water into 2-40 ml VOA vials and placed at the work station in the field where samples were obtained. These samples remained open during the entire sampling process. The purpose of these samples was to monitor for introduction of airborne contaminants into the sampling process. The field blanks were individually labeled and accompanied the investigative samples to the laboratory for analysis. Geo-Test collected one field blank sample per day of work in the field.

Ambient field blank samples were prepared in the field by filling 2-40 ml VOA vials with reagent grade deionized water and placed at a location away from the work area. The samples remained open during the entire drilling and sampling process. The purpose is to monitor for introduction of airborne contaminants into the sampling process. The ambient blanks were individually labeled and accompanied the investigative samples to the laboratory for analysis. Geo-Test collected one ambient blank sample per day of work in the field.

Equipment blank samples were obtained by pouring reagent grade deionized water over and/or through *decontaminated* equipment. The deionized water was then captured in sample containers. These samples were then individually labeled and returned to the laboratory for analysis. They serve as a check on equipment cleanliness. Geo-Test collected equipment blank samples from both the drill auger and the split spoon sampler.

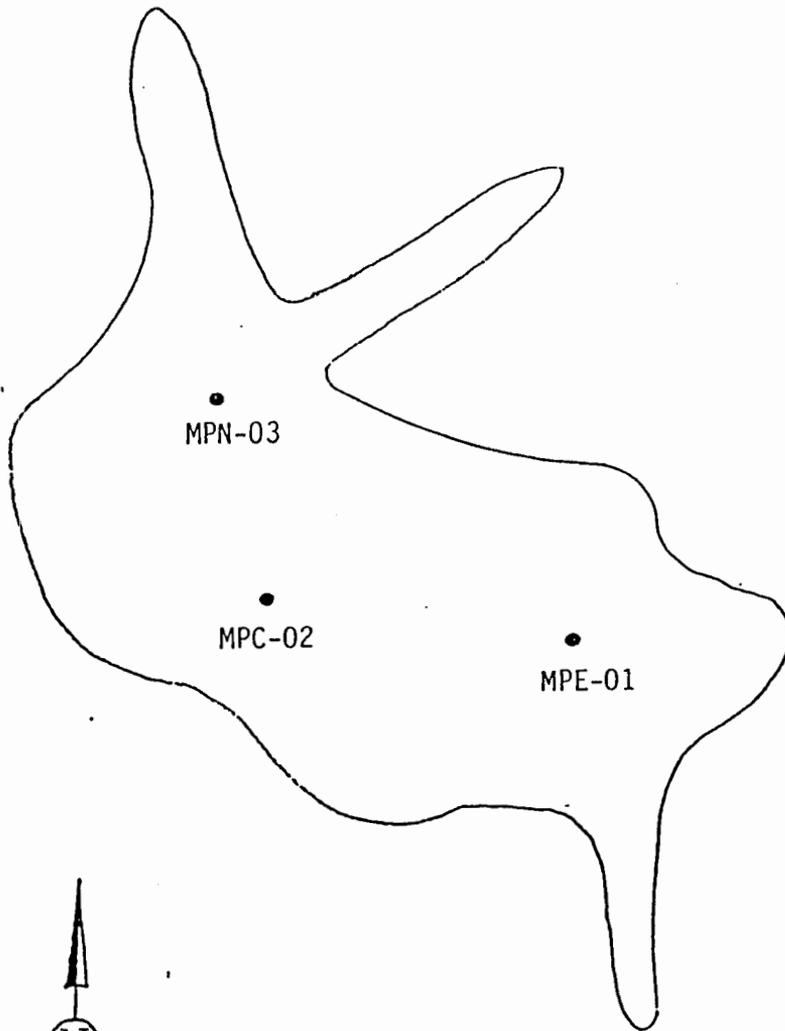
All liquid blank samples were preserved with HCl unless otherwise indicated on the sample labels and Chain of Custody.

4.40 Decontamination procedures

In order to assure that no contaminating materials were introduced to the soils of the pond or sewage lagoons, or to the soil samples obtained from these sites, all drilling auger and sampling equipment (e.g., split spoon sampler, sample tools) were steam cleaned prior to entry onto the sampling sites. (the drilling rig was also steam cleaned) Additionally, all drill auger used was washed with an Alconox solution, rinsed with deionized water, rinsed with methanol, then rinsed with hexane and allowed to air dry. The drill auger was then rinsed with reagent grade deionized water and an equipment blank was obtained. Then, after this procedure was complete, the drill auger was centered over the boring location and to begin drilling. Additionally, a sheet of plywood fitted with a pilot hole was laid on the ground prior to drilling to further guard against introduction of any contaminating materials. This procedure was repeated for each boring.

Decontamination of the sampling equipment i.e., split spoon, was accomplished following the same procedure as was used for the drill auger. An additional rinse with deionized water was also performed.

GOLF COURSE POND

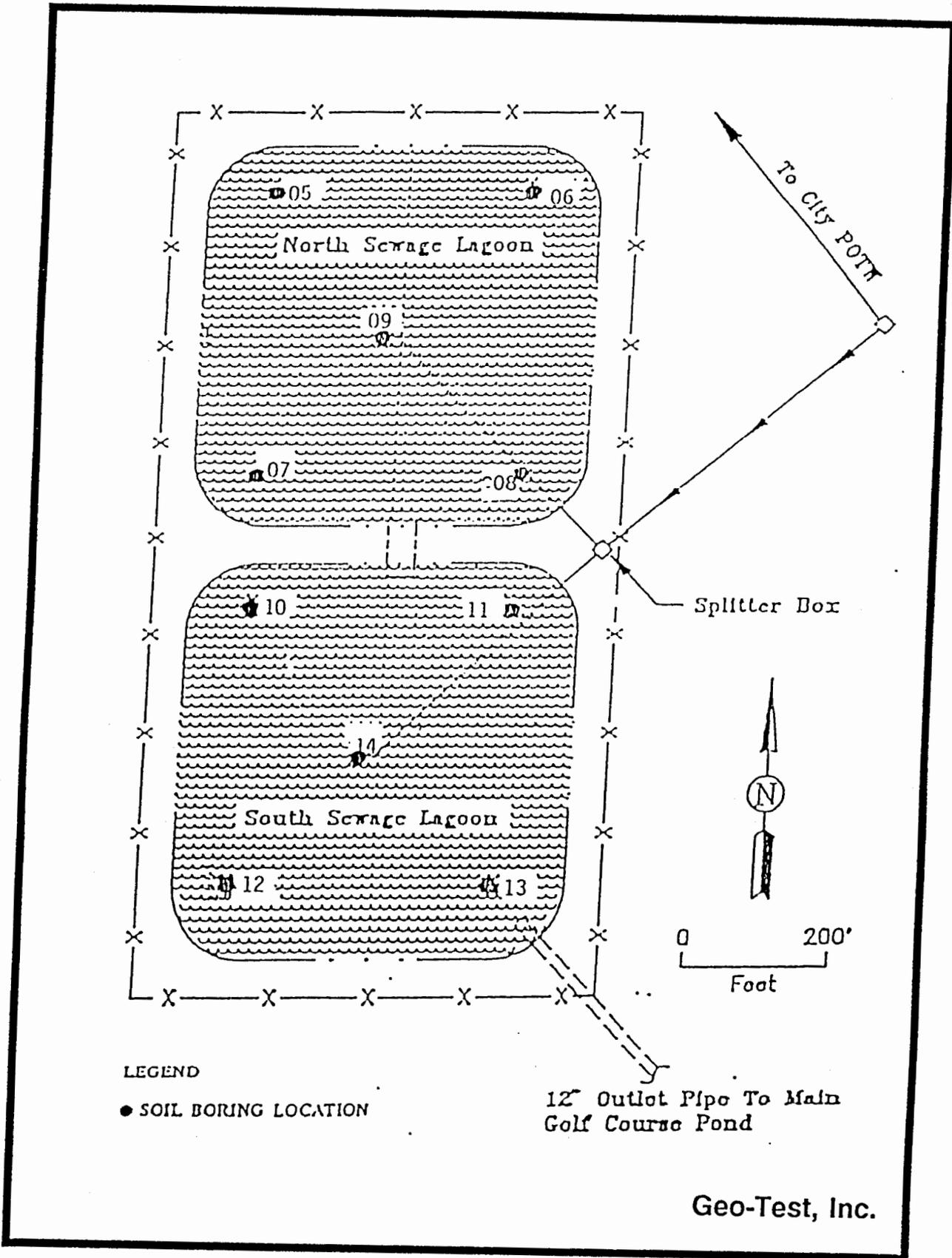


Soil Boring Location

Geo-Test, Inc.

FIGURE 1

SEWAGE TREATMENT LAGOONS



LEGEND

● SOIL BORING LOCATION

12" Outlet Pipe To Main Golf Course Pond

Geo-Test, Inc.

FIGURE 2

GEO-TEST, INC.

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(505) 883-0074

KAFB-Former Pond & Sewage Lagoons

Albuquerque, New Mexico

Boring No. KAFB-06-MPE-01

Page 1 of 1

File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Foreman			Type	SS	Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5/24/93	End	5/24/93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 6" Dry Clayey Silt Sediment, Low Plasticity			11:21
5						SAND, slightly silty, some small gravels, non plastic, brown, loose, damp	SM		
10		1	SS	10-11.5	8 9 10	SAND, silty, fine, non plastic, medium dense, damp	SM		11:48
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
15									
20									
25									

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 SS = split spoon sampler
 UD = undisturbed ring
 AC = auger cuttings
 CS = continuous sampler

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.

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Albuquerque, New Mexico

Boring No. KAFB-06-MPC-02

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.	Casing		Sampler	SS	Groundwater Readings				
Foreman		Type				Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB	I.D./O.D.			1.4/2.0					
Date Start	5-24-93	End	5-24-93	Hammer Wt.	140					
Location	See Exploration Location Plan		Hammer Fall		30					
GS.Elev.	Datum	Other			7.25" HSA					

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 6" Dry Clayey Silt Sediment, low plasticity			12:50
5						SAND, slightly silty, some small gravels, non plastic, brown, medium dense, damp	SM		
10		1	SS	10-11.5	50/4"	SAND, gravelly, non plastic, brown, very dense, slightly damp	SM		13:10
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
15									
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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.

Boring No. KAFB-06-MPC-02

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Boring No. KAFB-06-MPN-03

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Foreman			Type	SS	Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5-24-93	End	5-24-93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information				Moist/ Density	Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"					
						Top 6" Dry Clayey Silt Sediment, low plasticity			13:35	
						SAND, silty, fine, non plastic, brown, medium dense, damp	SM			
5						SAND, gravelly, non plastic, brown, medium dense, slightly damp	SP			
10		1	SS	10-11.5	8 9 10				13:47	
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET				
15										
20										
25										

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GEO-TEST, INC.

KAFB - Former Pond & Sewage Lagoons

Boring No. KAFB-05-05

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(505) 883-0074

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Albuquerque, New Mexico

File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Foreman			Type	SS	Date	Time	Depth	Casing	Stab. Time
GIT Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5-25-93	End	5-25-93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 3" Dry Sediment			9:55
						CLAY, silty, sandy, low to medium plasticity, light brown, stiff slightly damp	CL		
						SAND, clayey, low plasticity, brown, dense, damp	SC		
10		1	SS	10-11.5	12 18 16				10:10
15									
20									
25									

Remarks
 SS = split spoon sampler
 UD = undisturbed ring
 AC = auger cuttings
 CS = continuous sampler

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Boring No. KAFB-05-05

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Albuquerque, New Mexico

Boring No. KAFB-05-06

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Foreman			Type	SS	Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5-25-93	End	5-25-93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information					Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"	Moist/ Density				
							Top 3" Dry Sediment		10:35	
							CLAY, silty, sandy, low to medium plasticity, light brown, medium stiff, slightly damp	CL		
5							SAND, clayey, low plasticity, brown, medium dense, damp	SC		
10		1	SS	10-11.5	14 16 17		SAND, silty, non plastic, brown, dense, damp	SM	11:00	
							STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
15										
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CS = continuous sampler

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Boring No. KAFB-05-06

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Boring No. KAFB-05-07

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler		Groundwater Readings				
Foreman			Type	SS		Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0						
Date Start	5-25-93	End	5-25-93	Hammer Wt.	140					
Location	See Exploration Location Plan		Hammer Fall	30						
GS.Elev.	Datum		Other	7.25" HSA						

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 3" Dry Sediment			9:00
						CLAY, silty, sandy, low to medium plasticity, light brown, medium stiff, slightly damp	CL		
5						SAND, clayey, low plasticity, brown, medium dense, damp	SC		
10		1	SS	10-11.5	9 10 14				9:25
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
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CS = continuous sampler

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Boring No. KAFB-05-08

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler		Groundwater Readings				
Foreman			Type	SS		Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0						
Date Start	5-25-93	End	5-25-93	Hammer Wt.	140					
Location	See Exploration Location Plan		Hammer Fall	30						
GS.Elev.	Datum		Other	7.25" HSA						

D P T H	L O G	Sample Information					Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"	Moist/ Density				
						Top 3" Dry Sediment			11:20	
5						CLAY, silty, sandy, low to medium plasticity, light brown, medium stiff, slightly damp	CL			
10		1	SS	10-11.5	13 16 19	SAND, silty, non plastic, brown, dense, damp	SM		11:45	
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET				
15										
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 AC = auger cuttings
 CS = continuous sampler

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Boring No. KAFB-05-08

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Boring No. KAFB-05-09

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Operator			Type	SS	Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5-24-93	End	5-24-93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 3" Dry Sediment			16:25
						CLAY, silty sandy, medium plasticity, light brown, dense, damp	CL		
5						SAND, clayey, low plasticity, brown, medium dense, slightly damp	SC		
10		1	SS	10-11.5	6 8 10	SAND, silty, non plastic, brown, medium dense, damp	SM		16:50
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
15									
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Boring No. KAFB-05-09

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Albuquerque, New Mexico

Boring No. KAFB-05-11

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.	Casing		Sampler	SS	Groundwater Readings				
Foreman		Type				Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB	I.D./O.D.			1.4/2.0					
Date Start	5-26-93	End	5-26-93	Hammer Wt.	140					
Location	See Exploration Location Plan			Hammer Fall	30					
GS.Elev.	Datum			Other	7.25" HSA					

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 2" Dry Sediment			10:17
						SAND, silty, non plastic, brown medium dense, slightly damp	SM		
5						CLAY, silty, sandy, medium plasticity, light brown, medium stiff, damp	CL		
10		1	SS	10-11.5	10 16 13	SAND, silty, non plastic, brown, dense, damp	SM		10:32
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
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Boring No. KAFB-05-12

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Foreman			Type	SS	Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5-26-93	End	5-26-93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information				Blows/ 6"	Moist/ Density	Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)							
							Top 2" Dry Sediment			9:42	
							SAND, clayey, low plasticity, brown, medium dense, damp	SC			
5							CLAY, silty, sandy, medium plasticity, light brown, medium stiff, damp	CL			
10		1	SS	10-11.5	8 10 10		SAND, silty, some gravels, non plastic, brown, medium dense, damp	SM		9:55	
							STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET				
15											
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Boring No. KAFB-05-13

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File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.		Casing	Sampler	Groundwater Readings				
Foreman			Type	SS	Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB		I.D./O.D.	1.4/2.0					
Date Start	5-26-93	End	5-26-93	Hammer Wt.	140				
Location	See Exploration Location Plan		Hammer Fall	30					
GS.Elev.	Datum		Other	7.25" HSA					

D P T H	L O G	Sample Information					Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"	Moist/ Density				
						Top 2" Dry Sediment			8:55	
5						CLAY, silty, sandy, medium plasticity, light brown, medium stiff, slightly damp	CL			
10		1	SS	10-11.5	11 10 10	SAND, silty, non plastic, brown, medium dense, damp	SM		9:17	
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET				
15										
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 AC = auger cuttings
 CS = continuous sampler

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Boring No. KAFB-05-13

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Boring No. KAFB-05-14

Page 1 of 1

File No. 1-30514

Chkd. By: CMM

Boring Co.	GEO-TEST, INC.	Casing		Sampler	SS	Groundwater Readings				
Foreman		Type				Date	Time	Depth	Casing	Stab. Time
GTI Rep.	TB	I.D./O.D.			1.4/2.0					
Date Start	5-26-93	End	5-26-93	Hammer Wt.	140					
Location	See Exploration Location Plan		Hammer Fall		30					
GS.Elev.	Datum	Other			7.25" HSA					

D P T H	L O G	Sample Information				Sample Description & Classification	Unified Soil Class	R M K S	Time
		No.	TYPE	Depth (Ft.)	Blows/ 6"				
						Top 2" Dry Sediment		8:25	
						SAND, clayey, low plasticity, brown, medium dense, damp	SC		
5						CLAY, silty, sandy, medium plasticity, light brown, medium stiff, damp	CL		
10		1	SS	10-11.5	9 10 12	SAND, silty, some gravels, non plastic, brown, medium dense, slightly damp	SM	8:45	
						STOPPED AUGER AT 10 FEET STOPPED SAMPLER AT 11.5 FEET			
15									
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25									

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SS = split spoon sampler
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AC = auger cuttings
CS = continuous sampler

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.

Boring No. KAFB-05-14

SECTION V
CHAIN-OF-CUSTODY FORMS

SECTION V.A

AAL WORK ORDER # 9305170 CHAIN-OF-CUSTODY FORM



Chain of Custody Record

7300 JEFFERSON, N.E.
 ALL ROUTE / MEX 7109
 (505) 345-8964

Lab job no.: 5170 Date: _____

Page 1 of 2

3711 ADMIRAL, SUITE C
 EL PASO, TEXAS 79925
 (915) 593-6000

MELQUIADES ALANIS
 6411 LOCAL UNO
 CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client KAB (LCO) Project Manager/Contact WALTER PARK
 Address _____ Telephone No. _____
 City/State/Zip _____ Fax No. _____
 Project Name/Number WATERWAYS CO. OF Samplers: (Signature) [Signature]
 Contact/Purchase Order/Quote _____

No. of Containers	Analysis Required										Remarks
EM 2190											

Laboratory Sample Number	Field Sample Number/Location	Date	Time	Sample Type	Type/Size of Container	Preservation	
						Temp.	Chemical
1A	KAB-01-01-1	4/1/93	11:38	SOIL	4LZ VLN		WAC
2A	KAB-01-01-2-1		11:05				
3A	KAB-01-01-3-1		11:11				
4A	KAB-01-01-4-1		11:16				
4B	KAB-01-01-4-2		11:20		4LZ VLN		
5A	KAB-01-01-5-1		11:20				
6A	KAB-01-01-6-1		11:21				
7A	KAB-01-01-7-1		11:25				
7A	KAB-01-01-7-2		11:26				
9A	KAB-01-01-9-1		11:27				
10A	KAB-01-01-10-1		11:28				
11A	KAB-01-01-11-1		11:29				

Relinquished by: Signature: <u>[Signature]</u> Printed: <u>[Name]</u> Company: <u>[Company]</u> Reason: <u>[Reason]</u>	Date: <u>4/1/93</u> Time: <u>6:30 AM</u>	Received by: Signature: <u>[Signature]</u> Printed: <u>[Name]</u> Company: <u>AAL</u> Reason: _____	Relinquished by: Signature: _____ Printed: _____ Company: _____ Reason: _____	Date: _____ Time: _____	Received by: Signature: _____ Printed: _____ Company: _____ Reason: _____
Method of Shipment: _____ Shipment No.: _____ Special Instructions: _____	Comments: <u>SEE DATE - 4/1/93</u> <u>NOT RECEIVED</u> <u>NCP - SK 244</u>			After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer	



Chain of Custody Record

7300 JEFFERSON, N.E.
 ALBUQUERQUE, N.M. 87109
 (505) 345-8964

Lab job no.: 5170 Date: 9/1/99
 Page 2 of 2

3711 ADMIRAL, SUITE C
 EL PASO, TEXAS 79925
 (915) 593-6000

MELQUIADES ALANIS
 6411 LOCAL UNO
 CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: 1115 (12/2/9) Project Manager/Contact: WALTER JANK
 Address: _____ Telephone No.: _____
 City/State/Zip: _____ Fax No.: _____
 Project Name/Number: 1115 (12/2/9) Samplers: (Signature) [Signature]
 Contact/Purchase Order/Quote: _____

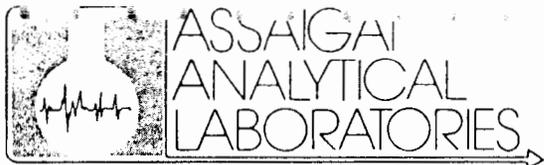
No. of Containers	Analysis Required										Remarks	
EPA 8240	X											
	X											
	X											
	X											
	X											
	X											
	X											

Laboratory Sample Number	Field Sample Number/Location	Date	Time	Sample Type	Type/Size of Container	Preservation	
						Temp.	Chemical
12A	1115-01-0101-1	9/1/99	10:00	100	500 mL		None
13A	1115-01-0102-1		10:00	100	500 mL		
14A	1115-01-0103-1		10:00	100	500 mL		
15A	1115-01-0104-1		10:00	100	500 mL		
16A	1115-01-0105-1		10:00	100	500 mL		
17A	1115-01-0106-1		10:00	100	500 mL		
18A	1115-01-0107-1		10:00	100	500 mL		

Relinquished by: <u>[Signature]</u> Signature: _____ Printed: <u>[Name]</u> Company: _____ Reason: <u>[Reason]</u>	Date: <u>9/1/99</u> Time: <u>10:00 AM</u>	Received by: <u>[Signature]</u> Signature: _____ Printed: <u>[Name]</u> Company: <u>AAC</u> Reason: _____	Relinquished by: _____ Signature: _____ Printed: _____ Company: _____ Reason: _____	Date: _____ Time: _____	Received by: _____ Signature: _____ Printed: _____ Company: _____ Reason: _____
Method of Shipment: _____ Shipment No.: _____ Special Instructions: _____	Comments: <u>see page 1 of 11</u> <u>NA received</u> <u>NCR # 1115 0107</u>			After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer	

SECTION V.B

AAL WORK ORDER # 9305179 CHAIN-OF-CUSTODY FORM



Chain of Custody Record

Lab job no. 5177 Date 5/2/01
 Page 1 of 2

73 OFFERS TRAIL E.
 ALBUQUERQUE, NEW MEXICO 87109
 (505) 345-8964

3711 ADMIRAL, SUITE C
 EL PASO, TEXAS 79925
 (915) 593-6000

MELQUIADES ALANIS
 6411 LOCAL UNO
 CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Env. Dept. Project Manager/Contact Walter
 Address _____ Telephone No. _____
 City/State/Zip _____ Fax. No. _____
 Project Name/Number _____ Samplers: (Signature) [Signature]
 Contact/Purchase Order/Quote _____

No. of Containers	Analysis Required										Remarks	
EPA 8140												

Laboratory Sample Number	Field Sample Number/Location	Date	Time	Sample Type	Type/Size of Container	Preservation	
						Temp.	Chemical
01A	100-05-07-01-1	5/2/01	11:00	400	400 ml		
2A	100-05-07-01-1						
3A	100-05-07-01-1						
4A	100-05-07-01-1						
5A	100-05-07-01-1						
6A	100-05-07-01-1						
7A	100-05-07-01-1						
8A	100-05-07-01-1						
9A	100-05-07-01-1						
10A	100-05-07-01-1						
11A	100-05-07-01-1						
12A	100-05-07-01-1						

Relinquished by: <u>[Signature]</u>	Date: <u>5/2/01</u>	Received by: <u>[Signature]</u>	Relinquished by: _____	Date: _____	Received by: _____
Signature: <u>[Signature]</u>	Time: <u>4:45 PM</u>	Signature: <u>Jenny Jenkins</u>	Signature: _____	Time: _____	Signature: _____
Printed: <u>[Name]</u>		Printed: <u>Jenny Jenkins</u>	Printed: _____		Printed: _____
Company: <u>[Company]</u>		Company: <u>AAE</u>	Company: _____		Company: _____
Reason: <u>[Reason]</u>		Reason: _____	Reason: _____		Reason: _____

Method of Shipment: _____

Shipments No. _____

Special Instructions: _____

Comments: _____

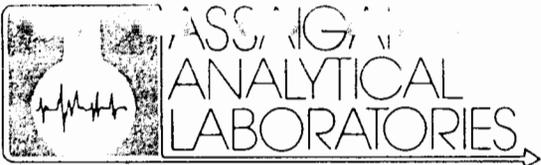
After analysis, samples are to be:

Disposed of (additional fee)

Stored (30 days max)

Stored over 30 days (additional fee)

Returned to customer



Chain of Custody, Reco. J

7300 JEFFERSON, N.E.
 ALE RQUE MEX '109
 (505) 345-8964

Lab job no.: 5177 Date _____

Page 2 of 2

3711 ADMIRAL, SUITE C
 EL PASO, TEXAS 79925
 (915) 593-6000

MELQUIADES ALANIS
 6411 LOCAL UNO
 CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client EL PASO Project Manager/Contact _____
 Address _____ Telephone No. _____
 City/State/Zip _____ Fax. No. _____
 Project Name/Number _____ Samplers: (Signature) [Signature]
 Contact/Purchase Order/Quote _____

No. of Containers	Analysis Required										Remarks	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Laboratory Sample Number	Field Sample Number / Location	Date	Time	Sample Type	Type/Size of Container	Preservation								
						Temp.	Chemical							
13A	TOP ROCK I	5/25/93	0946	water	100ml	4								
14A														
15A														
16A														
17A														
17A														
17A														

Relinquished by: Signature _____ Printed _____ Company _____ Reason _____	Date _____ Time <u>4:45 PM</u>	Received by: Signature <u>[Signature]</u> Printed <u>[Name]</u> Company <u>AAE</u> Reason _____	Relinquished by: Signature _____ Printed _____ Company _____ Reason _____	Date _____ Time _____	Received by: Signature _____ Printed _____ Company _____ Reason _____
Method of Shipment: _____ Shipment No. _____ Special Instructions: _____	Comments: _____ _____ _____			After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer	

SECTION V.C

AAL WORK ORDER 3 9305185 CHAIN-OF-CUSTODY FORM



Chain of Custody Record

7300 JEFFERSON, N.E.
EL PASO, TEXAS 79925
(915) 342-6564

Lab job no.: 5/15 Date: 5/26/01

Page 1 of 2

3711 ADMIRAL, SUITE C
EL PASO, TEXAS 79925
(915) 593-6000

Client _____ Project Manager _____
 Address KAFB Telephone No. _____
 Project Name/Number _____ Fax. No. _____
 Contract/Purchase Order/Quote _____ Samplers: (Signature) [Signature]

No. of Containers	Analysis Required		Remarks
	Temp.	Chemical	
<u>EPA 8240</u>			

Laboratory Sample Number	Field Sample Number	Location	Date	Time	Sample Type	Type/Size of Container	Preservation		No. of Containers	Analysis Required	Remarks
							Temp.	Chemical			
<u>61A</u>	<u>KAFB-05-14-01-1</u>		<u>5/26</u>	<u>940</u>	<u>9.1</u>	<u>403 JSA</u>	<u>4°C</u>		<u>1</u>		
<u>62A</u>	<u>KAFB-05-14-02-1</u>		<u>5/26</u>	<u>945</u>	<u>8.1</u>	<u>403 JSA</u>	<u>4°C</u>		<u>1</u>		
<u>63A</u>	<u>KAFB-05-15-01-1</u>		<u>5/26</u>	<u>910</u>	<u>9.1</u>	<u>"</u>	<u>4°C</u>		<u>2</u>		
<u>64A</u>	<u>KAFB-05-16-01-1</u>		<u>5/26</u>	<u>950</u>	<u>8.1</u>	<u>"</u>	<u>4°C</u>		<u>1</u>		
<u>65A</u>	<u>KAFB-05-17-01-1</u>		<u>5/26</u>	<u>953</u>	<u>9.1</u>	<u>"</u>	<u>4°C</u>		<u>1</u>		
<u>66A</u>	<u>KAFB-05-11-01-1</u>		<u>5/26</u>	<u>1025</u>	<u>9.1</u>	<u>"</u>	<u>4°C</u>		<u>2</u>		

Relinquished by: Signature <u>[Signature]</u> Printed <u>Steven Hockett</u> Company <u>Geo-Tech Inc</u> Reason <u>analysis</u>	Date <u>5/26</u> Time	Received by: Signature _____ Printed _____ Company _____ Reason _____	Relinquished by: Signature _____ Printed _____ Company _____ Reason _____	Date	Received by: Signature _____ Printed _____ Company _____ Reason _____
--	-----------------------------	---	---	------	---

Method of Shipment: _____
 Shipment No. _____
 Special Instructions: _____

Comments: [Handwritten]

After analysis, samples are to be:

- Disposed of (additional fee)
- Stored (30 days max)
- Stored over 30 days (additional fee)
- Returned to customer



Chain of Custody Record

7300 JEFFERSON, N.E.
 LBUC JE, N EXICC 9
 (505) 345-8964

Lab job no.: 5185 Date _____

Page 2 of 2

3711 ADMIRAL, SUITE C
 EL PASO, TEXAS 79925
 (915) 593-6000

Client _____ Project Manager _____
 Address _____ Telephone No. _____
 Project Name/Number KAFB Fax No. _____
 Contract/Purchase Order/Quote _____ Samplers: (Signature) [Signature]

Sample Number	Sample Description	Date	Time	Temp	Chemical	Preservation		Remarks	
						Temp	Chemical		
<u>07A</u>	<u>KAFB-05-EQ6</u>	<u>5/26</u>	<u>830</u>	<u>H2O</u>	<u>40.1 UOA</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>08A</u>	<u>KAFB-05-EQ6A</u>	<u>5/26</u>	<u>820</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>09A</u>	<u>KAFB-05-EQ9A</u>	<u>5/26</u>	<u>1010</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>10A</u>	<u>KAFB-05-EQ9SS</u>	<u>5/26</u>	<u>107</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>11A</u>	<u>KAFB-05-EQ8A</u>	<u>5/26</u>	<u>935</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>12A</u>	<u>KAFB-05-EQ8SS</u>	<u>5/26</u>	<u>943</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>13A</u>	<u>KAFB-05-EQ7A</u>	<u>5/26</u>	<u>900</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>14A</u>	<u>KAFB-05-EQ7SS</u>	<u>5/26</u>	<u>906</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>15A</u>	<u>Tip Blank</u>	<u>5/26</u>	<u>"</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>16A</u>	<u>KAFB-05-Ambient</u>	<u>5/26</u>	<u>1045</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	
<u>17A</u>	<u>KAFB-05-FBS</u>	<u>5/26</u>	<u>1040</u>	<u>H2O</u>	<u>"</u>	<u>HCL</u>	<u>2</u>	<u>X</u>	

Relinquished by: <u>[Signature]</u> Signature: <u>[Signature]</u> Printed: <u>[Name]</u> Company: <u>[Company]</u> Reason: <u>[Reason]</u>	Date: <u>5/26</u> Time: _____ Received by: <u>[Signature]</u> Signature: <u>[Signature]</u> Printed: <u>[Name]</u> Company: <u>[Company]</u> Reason: <u>[Reason]</u>	Relinquished by: _____ Signature: _____ Printed: _____ Company: _____ Reason: _____	Date: _____ Time: _____ Received by: _____ Signature: _____ Printed: _____ Company: _____ Reason: _____
Method of Shipment: _____ Shipment No.: _____ Special Instructions: _____		Comments: <u>[Comments]</u> After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer	

COURIER