CALIBRATION OUTLIER
Volatile TCL
(Page 1 of 1)

CASE/SAS #: 24259
COLUMN: Cap
HEATED PURGE (Y/N) Y

LABORATORY: ANALYT. RESOURCES
SITE NAME: Jefferson/Chene (MI)

Instrument ID: FINNS	Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date: 12-6-95												
Time:	12-6-95 14:31			12-6-95 19:36			12-7-95 10:54					
#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane 0.010												
Bromomethane 0.100												
Vinyl Chloride 0.100												
Chloroethane 0.010												
Methylene Chloride 0.010												
Acetone 0.010	2.155			2.331			1.517	30.6	J			
Carbon Disulfide 0.010												
1,1-Dichloroethene 0.100												
1,1-Dichloroethane 0.200												
1,2-Dichloroethene (total) 0.010												
Chloroform 0.200												
1,2-Dichloroethane 0.100												
2-Butanone 0.010												
1,1,1-Trichloroethane 0.100												
Carbon Tetrachloride 0.100												
Bromodichloromethane 0.200												
1,2-Dichloropropane 0.010												
cis-1,3-Dichloropropene 0.200												
Trichloroethene 0.300												
Dibromochloromethane 0.100												
1,1,2-Trichloroethane 0.100												
Benzene 0.500												
trans-1,3-Dichloropropene 0.100												
Bromoform 0.100												
4-Methyl-2-Pentanone 0.010	.985			.736	25.3	J	.934					
2-Hexanone 0.010												
Tetrachloroethene 0.200												
1,1,2,2-Tetrachloroethane 0.300												
Toluene 0.400												
Chlorobenzene 0.500												
Ethylbenzene 0.100	.599			.520			.444	25.9	J			
Styrene 0.300												
Xylene (total) 0.300	.834			.705			.605	27.5	J			
Toluene-d_8 0.010												
Bromofluorobenzene 0.200												
1,2-Dichloroethane-d_4 0.010												

Affected Samples:

	VBLK51	VBLK52	
EASS1 through	EASS9	EASS9DL	
EASS2MS and	EASS2MSD	EAST8	
EAST0 through	EAST4	EAST9	
	EAST6	EASW0	
	EAST7		

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated, "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-18-96

CALIBRATION OUTLIER
Volatile TCL
(Page 1 of 1)

CASE/SAS #: 24259
COLUMN: cap
HEATED PURGE (Y/N) N

LABORATORY: ANALYT. RESOURCES
SITE NAME: Jefferson / Chemo (MI)

Instrument ID: FINN3		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date: 11-29-95													
Time:		11-29-95 18:17			12-8-95 9:12								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane	0.010												
Bromomethane	0.100												
Vinyl Chloride	0.100												
Chloroethane	0.010												
Methylene Chloride	0.010												
Acetone	0.010												
Carbon Disulfide	0.010												
1,1-Dichloroethene	0.100												
1,1-Dichloroethane	0.200												
1,2-Dichloroethene (total)	0.010												
Chloroform	0.200												
1,2-Dichloroethane	0.100												
2-Butanone	0.010												
1,1,1-Trichloroethane	0.100												
Carbon Tetrachloride	0.100												
Bromodichloromethane	0.200												
1,2-Dichloropropane	0.010												
cis-1,3-Dichloropropene	0.200												
Trichloroethene	0.300												
Dibromochloromethane	0.100												
1,1,2-Trichloroethane	0.100												
Benzene	0.500												
trans-1,3-Dichloropropene	0.100												
Bromoform	0.100												
4-Methyl-2-Pentanone	0.010												
2-Hexanone	0.010												
Tetrachloroethene	0.200												
1,1,2,2-Tetrachloroethane	0.300												
Toluene	0.400												
Chlorobenzene	0.500												
Ethylbenzene	0.100												
Styrene	0.300												
Xylene (total)	0.300												
Toluene-d_8	0.010												
Bromofluorobenzene	0.200												
1,2-Dichloroethane-d_4	0.010												

Affected Samples:

	VBLK32		
	EAST5		
	EAST5MS		
	EAST5MSD		

Minimum Relative Response Factor.
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J/R = All positive results are estimated, "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-18-96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 1 of 2)

CASE/SAS #: 24259
C' 'MN: —

LABORATORY: ARI
SITE NAME: Jefferson/Chem (MI)

Instrument ID: FINNS		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date: 12-16-95													
Time:		12-16-95 14:59			12-19-95 14:59			12-20-95 17:34			12-22-95 16:47		
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol	0.800												
bis(2-Chloroethyl)ether	0.700												
2-Chlorophenol	0.800												
1,3-Dichlorobenzene	0.600												
1,4-Dichlorobenzene	0.500												
1,2-Dichlorobenzene	0.400												
2-Methylphenol	0.700												
2,2-oxybis(1-Chloropropane)	0.010												
4-Methylphenol	0.600												
N-Nitroso-di-n-propylamine	0.500												
Hexachloroethane	0.300												
Nitrobenzene	0.200												
Isophorone	0.400												
2-Nitrophenol	0.100												
2,4-Dimethylphenol	0.200												
bis(2-Chloroethoxy)methane	0.300												
2,4-Dichlorophenol	0.200												
1,2,4-Trichlorobenzene	0.200												
Naphthalene	0.700												
4-Chloroaniline	0.010												
Hexachlorobutadiene	0.010												
4-Chloro-3-methylphenol	0.200												
2-Methylnaphthalene	0.400												
Hexachlorocyclopentadiene	0.010												
2,4,6-Trichlorophenol	0.200												
2,4,5-Trichlorophenol	0.200												
2-Chloronaphthalene	0.800												
2-Nitroaniline	0.010												
Dimethylphthalate	0.010												
Acenaphthylene	0.900												
2,6-Dinitrotoluene	0.200												
3-Nitroaniline	0.010												
Acenaphthene	0.900												
2,4-Dinitrophenol	0.010		30.3	J									

Affected Samples:

	SBLK01	
	EAS51	EAS52
through	EAS59	through
	EAS51MS	EAS59
	EAS51MSD	EAS52PL
	EAS70	EAS59RE
	EAS71	EAS71RE
		EAS70

EAST6PL

Minimum Relative Response Factor.
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J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-15-96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 2 of 2)

CASE/SAS #: 24259
COLUMN:

LABORATORY: ARI
SITE NAME: Jefferson/Chem (MT)

Instrument ID: FINN8		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date: 12-16-95													
Time:		12-16-95 14:56			12-19-95 14:59			12-20-95 17:34			12-22-95 16:47		
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*
4-Nitrophenol	0.010												
Dibenzofuran	0.800												
2,4-Dinitrotoluene	0.200												
Diethylphthalate	0.010												
4-Chlorophenyl-phenylether	0.400												
Fluorene	0.900												
4-Nitroaniline	0.010												
4,6-Dinitro-2-methylphenol	0.010												
N-nitrosodiphenylamine	0.010												
4-Bromophenyl-phenylether	0.100												
Hexachlorobenzene	0.100												
Pentachlorophenol	0.050												
Phenanthrene	0.700												
Anthracene	0.700												
Carbazole	0.010												
Di-n-butylphthalate	0.010												
Fluoranthene	0.600												
Pyrene	0.600												
Butylbenzylphthalate	0.010												
3-3'-Dichlorobenzidine	0.010												
Benzo(a)anthracene	0.800												
Chrysene	0.700												
bis(2-Ethylhexyl)phthalate	0.010												
Di-n-octylphthalate	0.010												
Benzo(b)fluoranthene	0.700												
Benzo(k)fluoranthene	0.700												
Benzo(a)pyrene	0.700												
Indeno(1,2,3-cd)pyrene	0.500												
Dibenz(a,h)anthracene	0.400												
Benzo(g,h,i)perylene	0.500												
Nitrobenzene-d_5	0.200												
2-Flurobiphenyl	0.700												
Terphenyl-d_{14}	0.500												
Phenol-d_5	0.800												
2-Fluorophenol	0.600												
2,4,6-Tribromophenol	0.010												
2-Chlorophenol-d_4	0.800												
1,2-Dichlorobenzene-d_4	0.400												

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-18-96

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 24259
COLUMN: DB-5

LABORATORY: ARI
SITE NAME: Jefferson/Clume (MI)

Instrument Number ECD 3A	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date 12-21-95										
Time 12-22-95	12-21-95 21:20		12-22-95 11:32		12-23-95 9:30		12-26-95 20:02		12-27-95 19:35	
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Hepachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Arolcor 1016										
Aroclor 1221										
Aroclor 1232										
Arolcor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

		EASS1	EAST7DL	PBLK1
		through		
		EASS9		
		EASS1MS		
		EASS1MSD		
		EAST0		
	through	EAST9		
		EASW0		

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-18-96

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 24259
COLUMN: DB608

LABORATORY: ARI
SITE NAME: Jefferson/Chene (N

Instrument Number ECP3B	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date 12-21-95										
Time 12-22-95	12-21-95 21:20		12-22-95 11:32		12-23-95 9:30		12-26-95 20:02		12-27-95 17:53	
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC	21.1	J								
beta-BHC										
delta-BHC	22.4	J								
gamma-BHC										
Hepachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016										
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

		EAS5J	EAST7DL	PBLK1
		through		
		EAS59		
		EAS5MS		
		EAS5MSD		
		EAS70		
	through	EAS79		
		EAS80		

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-18-96

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RECEIVED
JAN 10 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

10 January 1996

Charles T. Elly
USEPA Region V
536 S. Clark Street
Tenth Floor, SL-10C
Chicago, IL 60605

RE: Case# 24259, SDG# EASS1 - Contract 68-D50029; ARI Job. #5335

Dear Mr. Elly,

Please find enclosed the data and deliverables for the above referenced Case and SDG which includes the following listed soil samples for full organics analyses. This SDG was received in one shipment, on 11/29/95, with samples for SDG# EASW1. No confidential information was received.

EASS1	**EASS2**	**EASS3**	**EASS4**	**EASS5**	**EASS6**	**EASS7**
EASS8	**EASS9**	**EAST0**	**EAST1**	**EAST2**	**EAST3**	**EAST4**
	EAST5	**EAST6**	**EAST7**	**EAST9**	**EASW0**	

All samples were in good condition when received, and there were no discrepancies between the OTR/COC and sample container labels, with the exception of the designated QC sample. The OTR/COC indicated that QC should be performed using sample "EASW25", which was not among the samples received. Also, both samples EASW2 and EASW5 fell into the second SDG when the samples were ordered alphanumerically. At the authorization of the CLASS representative, samples were chosen for QC analyses for this SDG.

VOLATILE ORGANICS

Samples were analyzed for volatile organics by GC/MS on Finn 3 and Finn 5, both instruments equipped with Restek Rtx 502.2, 0.25 mm X 105 m, 3.0 µm phase capillary columns. The traps are Vocarb 3000s, containing Carbopack B/Carboxen 1000 and 1001 material. This trap conforms to all requirements specified in the OLM03.0 SOW. Performance equivalent to the systems specified in the SOW is demonstrated by the initial and continuing calibrations, for which all requirements were met prior to analysis. Tuning criteria were also met for these instruments on all analysis dates.

Sample **EASS9** required reanalyses at dilution due to analyte concentrations above the linear range of instrument calibration. Both sets of results are reported. Sample **EAST5** required analysis as a medium level extract, as the initial run using approximately 0.5 grams resulted in concentrations far exceeding the linear calibration range. This sample and the associated medium level QC were reanalyzed several times with high variability between runs, attributed to matrix heterogeneity. Only one set of analyses is reported, however raw data for the unreported runs is included in the Sample Prep/Miscellaneous Data section.

System Monitoring Compound (SMC) recoveries and internal standard areas are all within contract-required QC limits. Spike compound recoveries and RPDs are also within limits in the low-level MS and MSD. Toluene recoveries and the RPD are outside limits in the medium-level QC analyses, however. No corrective action is required; note that this can be attributed to the high concentration of this compound in the unspiked sample.

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

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Analytical Chemists and Consultants

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10 January 1996

Charles T. Elly
USEPA Region V
536 S. Clark Street
Tenth Floor, SL-10C
Chicago, IL 60605

RE: Case# 24259, SDG# EASS1 - Contract 68-D50029; ARI Job. #5335

Dear Mr. Elly,

Please find enclosed the data and deliverables for the above referenced Case and SDG which includes the following listed soil samples for full organics analyses. This SDG was received in one shipment, on 11/29/95, with samples for SDG# EASW1. No confidential information was received.

EASS1	**EASS2**	**EASS3**	**EASS4**	**EASS5**	**EASS6**	**EASS7**
EASS8	**EASS9**	**EAST0**	**EAST1**	**EAST2**	**EAST3**	**EAST4**
	EAST5	**EAST6**	**EAST7**	**EAST9**	**EASW0**	

All samples were in good condition when received, and there were no discrepancies between the OTR/COC and sample container labels, with the exception of the designated QC sample. The OTR/COC indicated that QC should be performed using sample "EASW25", which was not among the samples received. Also, both samples EASW2 and EASW5 fell into the second SDG when the samples were ordered alphanumerically. At the authorization of the CLASS representative, samples were chosen for QC analyses for this SDG.

VOLATILE ORGANICS

Samples were analyzed for volatile organics by GC/MS on Finn 3 and Finn 5, both instruments equipped with Restek Rtx 502.2, 0.25 mm X 105 m, 3.0 µm phase capillary columns. The traps are Vocarb 3000s, containing Carbopack B/Carboxen 1000 and 1001 material. This trap conforms to all requirements specified in the OLM03.0 SOW. Performance equivalent to the systems specified in the SOW is demonstrated by the initial and continuing calibrations, for which all requirements were met prior to analysis. Tuning criteria were also met for these instruments on all analysis dates.

Sample **EASS9** required reanalyses at dilution due to analyte concentrations above the linear range of instrument calibration. Both sets of results are reported. Sample **EAST5** required analysis as a medium level extract, as the initial run using approximately 0.5 grams resulted in concentrations far exceeding the linear calibration range. This sample and the associated medium level QC were reanalyzed several times with high variability between runs, attributed to matrix heterogeneity. Only one set of analyses is reported, however raw data for the unreported runs is included in the Sample Prep/Miscellaneous Data section.

System Monitoring Compound (SMC) recoveries and internal standard areas are all within contract-required QC limits. Spike compound recoveries and RPDs are also within limits in the low-level MS and MSD. Toluene recoveries and the RPD are outside limits in the medium-level QC analyses, however. No corrective action is required; note that this can be attributed to the high concentration of this compound in the unspiked sample.

EXTRACTIONS

Samples were difficult to homogenize, as the matrix consisted of clay and pebbles. No reextractions were necessary, however the pesticide/PCB method blank that was originally run had spike compounds present. The archived portion of the extract was put through GPC and reanalyzed successfully.

SEMIVOLATILE ORGANICS

Samples were analyzed for semivolatile organics by GC/MS on Finn 8. This instrument uses a 31 m segment of a Restek Rtx-5 column, 0.32 mm X 105 m, 0.25 µm phase. Performance equivalent to the systems specified in the SOW is demonstrated by the initial and continuing calibrations, for which all requirements were met prior to analysis. Tuning criteria were also met for this instrument on the analysis dates.

Samples **EASS2** and **EAST6** required reanalyses at dilution due to analyte concentrations above the linear range of instrument calibration. Samples **EASS8** and **EAST1** were reanalyzed because a large, early-eluting TIC peak caused surrogate retention times to drift. This was replicated in the reanalyses, indicating matrix effect. Both sets of results for all four of these samples are reported.

Surrogate recoveries for the method blank and samples are within contract-required QC limits without exception. Internal standard areas are within limits, also, with the exception of IS1 in sample **EASS8RE**. Spike compound recoveries are outside advisory limits for 4-chloro-3-methylphenol, 4-nitrophenol, 2,4-dinitrotoluene, and pentachlorophenol in both the MS and the MSD, and also for phenol in the MS. RPDs are all within limits. No corrective action is required; note that the lack of PCP recoveries is attributed to matrix effect.

Manual integrations were required for the following samples (none were required in the standards):

EASS1MSD	benzo(b)fluoranthene, benzo(k)fluoranthene
EASS2	benzo(b)fluoranthene, benzo(k)fluoranthene,
EASS2DL	benzo(b)fluoranthene, benzo(k)fluoranthene
EASS5	benzo(b)fluoranthene, benzo(k)fluoranthene
EASS6	benzo(b)fluoranthene, benzo(k)fluoranthene
EASS7	benzo(b)fluoranthene, benzo(k)fluoranthene
EASS8	2-fluorophenol, d4-2-chlorophenol, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene
EASS8RE	2-fluorophenol, benzo(b)fluoranthene, benzo(k)fluoranthene
EASS9	benzo(b)fluoranthene, benzo(k)fluoranthene
EAST0	benzo(b)fluoranthene, benzo(k)fluoranthene
EAST1	2-fluorophenol
EAST1RE	2-fluorophenol
EAST7	benzo(b)fluoranthene, benzo(k)fluoranthene
EAST8	benzo(b)fluoranthene, benzo(k)fluoranthene
EAST9	benzo(b)fluoranthene, benzo(k)fluoranthene

Alkanes were detected in samples as presented in Attachment A. Spectra for any additional TICs that are not reported on the Form Is and are not alkanes are included in the Sample Prep/ Miscellaneous Data section.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

PESTICIDE/PCB ORGANICS

Pesticide/PCB samples were analyzed by GC instrument ECD3A. This instrument uses both J&W DB-5, 0.53 mm X 30 m, 1.5 µm phase, and J&W DB-608, 0.53 mm X 30 m, 0.83 µm phase, columns, and analyses were performed using 1 µl injections. Calibration criteria were met on this instrument for all reported analysis dates.

Sample **EAST7** required reanalysis at dilution due to concentrations of 4,4'-DDT that is above the linear range of instrument calibration. Both sets of results are reported. Many of the compounds in these samples are quantified and "P" flagged because they fall within the retention time windows. It is the opinion of the analyst and QA reviewer, however, that they may not be "real" hits, as significant matrix interference precludes definitive quantitation. In the cases of endrin ketone in sample **EASS2**, dieldrin in sample **EAST7**, gamma-chlordane in sample **EAST8**, and methoxychlor and endrin ketone in sample **EAST9**, the results are qualified with a "Y" flag, indicating that the compounds are considered NOT detected, however the reporting limits are raised due to interference.

The TCX and DCB surrogate recoveries are within advisory limits with the exceptions of low TCX on the primary column in samples EASS7 and EAST9, low DCB on the primary column in samples **EASS3**, **EAST7DL**, **EAST9**, and **EASS1MS**, and high DCB on the secondary column in sample **EASS2**. All spike compound recoveries and RPDs are within limits in the QC sample analyses. No corrective action is required.

Any unreported data associated with these samples (sample preparation information, analyst worksheets, unreported data, etc.) has been submitted here in the Sample Prep/Miscellaneous Data section. Copies of any communication records, instrument logbook pages, and any other documentation regarding this SDG that is not included elsewhere is in the Additional Records section. A copy of the entire package will be kept on file at Analytical Resources, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer readable data submitted on the floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Kate Stegemoeller 1/10/96
Signature Date

Respectfully submitted,
ANALYTICAL RESOURCES, INC.

Kate Stegemoeller

Kathryn A. Stegemoeller
EPA Project Manager

Original to Region
cc: USEPA-CLP-SMO
file 5335

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

I Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EASS1	102	95	95	0	0
02	EASS2	96	99	97	0	0
03	EASS3	101	103	99	0	0
04	EASS4	104	97	99	0	0
05	EASS5	107	93	98	0	0
06	EASS6	106	99	98	0	0
07	EASS7	104	94	96	0	0
08	EASS8	105	93	96	0	0
09	EASS9	111	84	96	0	0
10	EASS9DL	104	103	100	0	0
11	EAST0	104	93	94	0	0
12	EAST1	102	98	96	0	0
13	EAST2	103	94	93	0	0
14	EAST3	109	91	95	0	0
15	EAST4	101	93	95	0	0
16	EAST6	103	94	94	0	0
17	EAST7	106	89	94	0	0
18	EAST8	100	98	102	0	0
19	EAST9	105	92	103	0	0
20	EASW0	99	100	103	0	0
21	EASS2MS	100	99	95	0	0
22	EASS2MSD	98	94	101	0	0
23	VBLK51	98	106	98	0	0
24	VBLK52	98	100	104	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EAST5	98	109	104	0	0
02	EAST5MS	98	97	111	0	0
03	EAST5MSD	98	94	118	0	0
04	VBLK32	102	98	109	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix Spike - EPA Sample No.: EASS2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	55.10	0	55.64	101	59-172
Trichloroethene	55.10	0	52.84	96	62-137
Benzene	55.10	0	55.36	100	66-142
Toluene	55.10	0	54.45	99	59-139
Chlorobenzene	55.10	0	51.97	94	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	55.10	62.65	114	12	22	59-172
Trichloroethene	55.10	54.50	99	3	24	62-137
Benzene	55.10	60.06	109	9	21	66-142
Toluene	55.10	57.34	104	5	21	59-139
Chlorobenzene	55.10	51.71	94	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK32

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Lab File ID: F3MB1208M Lab Sample ID: F3MB1208M

Date Analyzed: 12/08/95 Time Analyzed: 1120

GC Column: CAP ID: 0.250(mm) Heated Purge: (Y/N) N

Instrument ID: FINN3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EAST5	F35335ORE	F3533502	1647
02	EAST5MS	F35335OMS	F35335OMS4	1728
03	EAST5MSD	F35335OMSD	F3M5335MSD4	1802

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK51

.b Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Lab File ID: F5MB1206A Lab Sample ID: F5MB1206A

Date Analyzed: 12/06/95 Time Analyzed: 2004

GC Column: CAP ID: 0.250(mm) Heated Purge: (Y/N) Y

Instrument ID: FINN5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EASS1	F55335A	F55335A	2036
02	EASS2	F55335B	F55335B	2108
03	EASS3	F55335C	F55335C	2230
04	EASS4	F55335D	F55335D	2257
05	EASS5	F55335E	F55335E	2325
06	EASS6	F55335F	F55335F	2352
07	EASS7	F55335G	F55335G	0020
08	EASS8	F55335H	F55335H	0048
09	EASS9	F55335I	F55335I	0116
10	EAST0	F55335J	F55335J	0144
11	EAST1	F55335K	F55335K	0212
12	EAST2	F55335L	F55335L	0240
13	EAST3	F55335M	F55335M	0308
14	EAST4	F55335N	F55335N	0336
15	EAST6	F55335P	F55335P	0404
16	EAST7	F55335Q	F55335Q	0432
17	EASS2MS	F55335BMS	F55335BMS	2134
18	EASS2MSD	F55335BMSD	F55335BMSD	2200

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK32

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Lab File ID: F3MB1208M Lab Sample ID: F3MB1208M

Date Analyzed: 12/08/95 Time Analyzed: 1120

GC Column: CAP ID: 0.250(mm) Heated Purge: (Y/N) N

Instrument ID: FINN3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EAST5	F35335ORE	F3533502	1647
02	EAST5MS	F35335OMS	F35335OMS4	1728
03	EAST5MSD	F35335OMSD	F3M5335MSD4	1802

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK51

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Lab File ID: F5MB1206A Lab Sample ID: F5MB1206A

Date Analyzed: 12/06/95 Time Analyzed: 2004

GC Column: CAP ID: 0.250(mm) Heated Purge: (Y/N) Y

Instrument ID: FINN5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EASS1	F55335A	F55335A	2036
02	EASS2	F55335B	F55335B	2108
03	EASS3	F55335C	F55335C	2230
04	EASS4	F55335D	F55335D	2257
05	EASS5	F55335E	F55335E	2325
06	EASS6	F55335F	F55335F	2352
07	EASS7	F55335G	F55335G	0020
08	EASS8	F55335H	F55335H	0048
09	EASS9	F55335I	F55335I	0116
10	EAST0	F55335J	F55335J	0144
11	EAST1	F55335K	F55335K	0212
12	EAST2	F55335L	F55335L	0240
13	EAST3	F55335M	F55335M	0308
14	EAST4	F55335N	F55335N	0336
15	EAST6	F55335P	F55335P	0404
16	EAST7	F55335Q	F55335Q	0432
17	EASS2MS	F55335BMS	F55335BMS	2134
18	EASS2MSD	F55335BMSD	F55335BMSD	2200

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK52

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Lab File ID: F5MB1207 Lab Sample ID: F5MB1207

Date Analyzed: 12/07/95 Time Analyzed: 1133

GC Column: CAP ID: 0.250(mm) Heated Purge: (Y/N) Y

Instrument ID: FINN5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EASS9DL	F55335IDL	F55335IDL	1832
02	EAST8	F55335R	F55335R	1159
03	EAST9	F55335S	F55335S	1224
04	EASW0	F55335T	F55335T	1250

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK32

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F3MB1208M

Sample wt/vol: 2.0 (g/mL) G Lab File ID: F3MB1208M

Level: (low/med) MED Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/08/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	1200	U
67-64-1	Acetone	770	J
75-15-0	Carbon Disulfide	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-34-3	1,1-Dichloroethane	1200	U
540-59-0	1,2-Dichloroethene (total)	1200	U
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	1200	U
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1200	U
100-42-5	Styrene	1200	U
1330-20-7	Xylene (total)	1200	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK32

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F3MB1208M

Sample wt/vol: 2.0 (g/mL) G Lab File ID: F3MB1208M

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/08/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.73	1200	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK51

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F5MB1206A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F5MB1206A

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK32

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F3MB1208M

Sample wt/vol: 2.0 (g/mL) G Lab File ID: F3MB1208M

Level: (low/med) MED Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/08/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.73	1200	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK51

ab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F5MB1206A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F5MB1206A

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.60	16	JN
2.	UNKNOWN SILANE (BP M/E 281)	13.45	20	J

00467

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK52

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F5MB1207

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F5MB1207

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK52

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F5MB1207

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F5MB1207

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.62	14	JN
2.	UNKNOWN SILANE (BP M/E 207)	10.60	15	J
3.	UNKNOWN SILANE (BP M/E 281)	13.43	72	J
4.	UNKNOWN SILANE (BP M/E 73)	15.83	11	J

00476

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS1

EASS1

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335A

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 12 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS1

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335A

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335A

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 12 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.60	21	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.60	8	J
3.	UNKNOWN SILANE (BP M/E 281)	13.42	47	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.80	11	J

A1
1-17-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS2

EASS2

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335B

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 11 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS2

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335B

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 11 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.52	14	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.50	10	J
3.	UNKNOWN SILANE (BP M/E 281)	13.33	56	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.72	7	J

AV
1-15-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS3

EASS3

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335C

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335C

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 10 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS3

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335C

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335C

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 10 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.68	17	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.70	6	J
3.	UNKNOWN SILANE (BP M/E 281)	13.53	25	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.93	7	J

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1-12-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS4

EASS4

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335D

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 12 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	24	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS4

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335D

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335D

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 12 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.67	16	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.67	8	J
3.	UNKNOWN SILANE (BP M/E 281)	13.50	40	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.92	9	J

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS5

EASS5

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335E

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F55335E

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 11 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	29	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS5

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335E

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F55335E

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 11 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.67	16	JNB
2.	UNKNOWN SILANE (BP M/E 281)	13.52	11	BJ

1-15-96

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS6

EASS6

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335F

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335F

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 13 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	17	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS6

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335F

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335F

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 13 Date Analyzed: 12/06/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.70	18	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.70	10	J
3.	UNKNOWN SILANE (BP M/E 281)	13.53	36	BJ

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1/15/96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS7

EASS7

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335G

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335G

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 14 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS7

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335G

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335G

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 14 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.65	12	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.65	10	J
3.	UNKNOWN SILANE (BP M/E 281)	13.50	38	BJ
4. 3779-61-1	1,3,6-OCTATRIENE, 3,7-DIMETH	14.17	7	JN
5.	UNKNOWN SILANE (BP M/E 73)	15.90	6	J

AV
1-15-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S58

EASS8

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335H

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335H

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 11 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	28	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS8

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335H

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335H

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 11 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.67	17	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.68	8	J
3.	UNKNOWN SILANE (BP M/E 281)	13.52	39	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.92	11	J

AI
1-15-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS9

EASS9

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335I

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335I

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 22 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	430	E
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	150	
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS9

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335I

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335I

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 22 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.65	22	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.65	9	J
3.	UNKNOWN SILANE (BP M/E 281)	13.50	44	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.90	13	J

AI
1-18-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EASS9DL

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335IDL

Sample wt/vol: 1.7 (g/mL) G Lab File ID: F55335IDL

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 22 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	38	U
74-83-9	Bromomethane	38	U
75-01-4	Vinyl Chloride	38	U
75-00-3	Chloroethane	38	U
75-09-2	Methylene Chloride	38	U
67-64-1	Acetone	700	D
75-15-0	Carbon Disulfide	38	U
75-35-4	1,1-Dichloroethene	38	U
75-34-3	1,1-Dichloroethane	38	U
540-59-0	1,2-Dichloroethene (total)	38	U
67-66-3	Chloroform	38	U
107-06-2	1,2-Dichloroethane	38	U
78-93-3	2-Butanone	210	D
71-55-6	1,1,1-Trichloroethane	38	U
56-23-5	Carbon Tetrachloride	38	U
75-27-4	Bromodichloromethane	38	U
78-87-5	1,2-Dichloropropane	38	U
10061-01-5	cis-1,3-Dichloropropene	38	U
79-01-6	Trichloroethene	38	U
124-48-1	Dibromochloromethane	38	U
79-00-5	1,1,2-Trichloroethane	38	U
71-43-2	Benzene	38	U
10061-02-6	trans-1,3-Dichloropropene	38	U
75-25-2	Bromoform	38	U
108-10-1	4-Methyl-2-Pentanone	38	U
591-78-6	2-Hexanone	38	U
127-18-4	Tetrachloroethene	38	U
79-34-5	1,1,2,2-Tetrachloroethane	38	U
108-88-3	Toluene	38	U
108-90-7	Chlorobenzene	38	U
100-41-4	Ethylbenzene	38	U
100-42-5	Styrene	38	U
1330-20-7	Xylene (total)	38	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASS9DL

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335IDL

Sample wt/vol: 1.7 (g/mL) G Lab File ID: F55335IDL

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 22 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.72	59	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.73	34	BJ
3.	UNKNOWN SILANE (BP M/E 281)	13.55	150	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.97	42	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS10

EAST0

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335J

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335J

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 13 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS10

EAST0

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335J

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335J

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 13 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.72	17	JNB
2.	UNKNOWN SILANE (BP M/E 281)	13.57	18	BJ
3.	UNKNOWN SILANE (BP M/E 73)	15.97	10	J

AY
1-15-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS11

EAST1

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335K

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335K

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 15 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SSH
EAST1

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335K

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335K

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 15 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.68	18	JNBl
2.	UNKNOWN SILANE (BP M/E 207)	10.70	6	J
3.	UNKNOWN SILANE (BP M/E 281)	13.53	11	BJl

AV
1-18-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
5512

EAST2

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335L

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335L

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	35	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	11	J
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS12

EAST2

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335L

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335L

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	2-METHYLBUTANE	4.67	8	JN
2.	UNKNOWN (BP M/E 43)	6.10	13	J
3.	METHYLPENTANE ISOMER (BP M/E	6.42	7	J
4. 110-54-3	HEXANE	6.70	19	JNB
5.	UNKNOWN SILANE (BP M/E 207)	10.72	10	J
6.	UNKNOWN SILANE (BP M/E 281)	13.55	35	BJ
7.	UNKNOWN SILANE (BP M/E 73)	15.95	9	J

AV
1-12-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
5513

EAST3

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335M

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F55335M

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 13 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS13

EAST3

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335M

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F55335M

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 13 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.67	17	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.67	9	J
3.	UNKNOWN SILANE (BP M/E 281)	13.50	39	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.90	8	J

AI
1-15-96

00194

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS14

EAST4

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335N

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335N

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 21 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
5514

EAST4

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335N

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335N

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 21 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.72	19	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.72	11	J
3.	UNKNOWN SILANE (BP M/E 281)	13.55	40	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.95	9	J

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS15

EAST5

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F35335ORE

Sample wt/vol: 2.1 (g/mL) G Lab File ID: F3533502

Level: (low/med) MED Date Received: 11/29/95

% Moisture: not dec. 18 Date Analyzed: 12/08/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 10.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14000	U
74-83-9	Bromomethane	14000	U
75-01-4	Vinyl Chloride	14000	U
75-00-3	Chloroethane	14000	U
75-09-2	Methylene Chloride	14000	U
67-64-1	Acetone	14000	U
75-15-0	Carbon Disulfide	14000	U
75-35-4	1,1-Dichloroethene	14000	U
75-34-3	1,1-Dichloroethane	14000	U
540-59-0	1,2-Dichloroethene (total)	14000	U
67-66-3	Chloroform	14000	U
107-06-2	1,2-Dichloroethane	14000	U
78-93-3	2-Butanone	14000	U
71-55-6	1,1,1-Trichloroethane	14000	U
56-23-5	Carbon Tetrachloride	14000	U
75-27-4	Bromodichloromethane	14000	U
78-87-5	1,2-Dichloropropane	14000	U
10061-01-5	cis-1,3-Dichloropropene	14000	U
79-01-6	Trichloroethene	14000	U
124-48-1	Dibromochloromethane	14000	U
79-00-5	1,1,2-Trichloroethane	14000	U
71-43-2	Benzene	14000	U
10061-02-6	trans-1,3-Dichloropropene	14000	U
75-25-2	Bromoform	14000	U
108-10-1	4-Methyl-2-Pentanone	14000	U
591-78-6	2-Hexanone	14000	U
127-18-4	Tetrachloroethene	14000	U
79-34-5	1,1,2,2-Tetrachloroethane	14000	U
108-88-3	Toluene	41000	
108-90-7	Chlorobenzene	14000	U
100-41-4	Ethylbenzene	61000	
100-42-5	Styrene	14000	U
1330-20-7	Xylene (total)	600000	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS15

EAST5

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F35335ORE

Sample wt/vol: 2.1 (g/mL) G Lab File ID: F3533502

Level: (low/med) MED Date Received: 11/29/95

% Moisture: not dec. 18 Date Analyzed: 12/08/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN (BP M/E 43)	7.93	100000	J
2.		C7.H16 ISOMER (BP M/E 43)	8.12	89000	J
3.		C8.H18 ISOMER (BP M/E 57)	8.48	170000	J
4.	142-82-5	HEPTANE	8.57	90000	JN
5.	108-87-2	METHYLCYCLOHEXANE	9.27	150000	JN
6.		UNKNOWN (BP M/E 43)	9.75	130000	J
7.		UNKNOWN HC (BP M/E 43)	9.92	300000	J
8.		UNKNOWN HC (BP M/E 43)	10.08	100000	J
9.	108-88-3	METHYLBENZENE	10.28	120000	JN
10.		UNKNOWN HC (BP M/E 43)	10.57	140000	J
11.		UNKNOWN HC (BP M/E 43)	11.83	110000	J
12.		UNKNOWN ALKYLBENZENE (BP M/E	12.12	100000	J
13.		DIMETHYLBENZENE ISOMER (BP M	12.33	630000	J
14.		UNKNOWN HC (BP M/E 43)	12.45	93000	J
15.		DIMETHYLBENZENE ISOMER (BP M	12.83	250000	J
16.		ETHYLMETHYLBENZENE ISOMER (B	13.97	510000	J
17.		ETHYLMETHYLBENZENE ISOMER (B	14.03	210000	J
18.		TRIMETHYLBENZENE ISOMER (BP	14.18	330000	J
19.		ETHYLMETHYLBENZENE ISOMER (B	14.38	190000	J
20.		TRIMETHYLBENZENE ISOMER (BP	14.70	920000	J
21.		DIETHYLBENZENE ISOMER (BP M/	15.42	75000	J
22.		C10.H14/C17.H18 COELUTE (BP	15.48	220000	J
23.		UNKNOWN ALKYLBENZENE ISOMER	15.60	220000	J
24.		UNKNOWN HC COELUTE (BP M/E 4	15.85	100000	J
25.		ETHYLDIMETHYLBENZENE ISOMER	15.98	82000	J
26.		UNKNOWN ALKYLBENZENE ISOMER	16.05	75000	J
27.		ETHYLDIMETHYLBENZENE ISOMER	16.13	140000	J
28.		TETRAMETHYLBENZENE ISOMER (B	16.80	86000	J
29.		TETRAMETHYLBENZENE ISOMER (B	16.87	110000	J
30.		DIHYDROMETHYLINDENE ISOMER (	17.38	72000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS16

EAST6

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335P

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335P

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 15 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	11	J
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	13	
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	6	J
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	30	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAST6

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335P

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335P

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 15 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-28-5	2-METHYLPROPANE	3.95	17	JN
2.	UNKNOWN (BP M/E 43)	4.68	15	J
3. 109-66-0	PENTANE	5.02	10	JN
4.	UNKNOWN (BP M/E 43)	6.12	9	J
5. 110-54-3	HEXANE	6.72	21	JNB
6.	C6.H12 ISOMER (BP M/E 56)	7.70	8	J
7.	UNKNOWN SILANE (BP M/E 207)	10.73	7	J
8.	UNKNOWN SILANE (BP M/E 281)	13.57	26	BJ
9. 3779-61-1	1,3,6-OCTATRIENE, 3,7-DIMETH	14.23	10	JN
10.	C10.H22 ISOMER COELUTE (BP M	14.90	6	J
11.	ETHYLMETHYLBENZENE ISOMER (B	15.03	23	J
12.	TRIMETHYLBENZENE ISOMER (BP	15.10	9	J
13.	ETHYLMETHYLBENZENE ISOMER (B	15.50	7	J
14.	TRIMETHYLBENZENE ISOMER (BP	15.68	39	J
15.	UNKNOWN SILANE (BP M/E 73)	15.98	10	J
16.	UNKNOWN HC (BP M/E 43)	16.20	21	J
17.	TRIMETHYLBENZENE ISOMER (BP	16.38	10	J
18.	UNKNOWN ALKYLBENZENE ISOMER	16.53	9	J
19.	DIETHYLBENZENE ISOMER (BP M/	16.62	13	J
20.	ETHYLDIMETHYLBENZENE ISOMER	17.05	8	J
21.	ETHYLDIMETHYLBENZENE ISOMER	17.12	6	J
22.	ETHYLDIMETHYLBENZENE ISOMER	17.22	7	J
23.	UNKNOWN HC (BP M/E 43)	17.73	34	J
24.	C10.H22/C10.H14 COELUTE (BP	17.88	26	J
25.	UNKNOWN (BP M/E 41)	18.02	6	J
26.	C10.H14 ISOMER (BP M/E 119)	18.60	15	J
27.	UNKNOWN HC (BP M/E 57)	18.72	7	J
28.	UNKNOWN HC COELUTE (BP M/E 1	19.03	8	J
29.	UNKNOWN HC (BP M/E 43)	19.22	21	J
30.	C10.H8 PNA (BP M/E 128)	19.95	15	J

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS17

EAST7

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335Q

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335Q

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	16	
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS17

EAST7

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335Q

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335Q

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BP M/E 45)	4.75	8	J
2. 110-54-3	HEXANE	6.67	18	JNB
3.	UNKNOWN SILANE (BP M/E 207)	10.68	13	J
4.	UNKNOWN SILANE (BP M/E 281)	13.52	63	BJ
5.	UNKNOWN SILANE (BP M/E 73)	15.92	18	J

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1-18-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS18

EAST8

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335R

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335R

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 12 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAST8

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335R

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F55335R

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 12 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.63	16	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.62	18	BJ
3.	UNKNOWN SILANE (BP M/E 281)	13.45	57	BJ
4.	UNKNOWN SILANE (BP M/E 73)	15.87	6	BJ

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1-15-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS19

EAST9

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335S

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F55335S

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EAST9

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335S

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F55335S

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 17 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.63	14	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.63	11	BJ
3.	UNKNOWN SILANE (BP M/E 281)	13.47	42	BJ

AV
1-15-96

0346

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS20

EASW0

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335T

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335T

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 14 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EASW0

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix: (soil/water) SOIL Lab Sample ID: F55335T

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F55335T

Level: (low/med) LOW Date Received: 11/29/95

% Moisture: not dec. 14 Date Analyzed: 12/07/95

GC Column: CAP ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-54-3	HEXANE	6.62	15	JNB
2.	UNKNOWN SILANE (BP M/E 207)	10.62	10	BJ
3.	UNKNOWN SILANE (BP M/E 281)	13.45	39	BJ

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

L Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EASS1	56	72	74	53	48	35	53	52	0
02	EASS2	54	69	88	54	45	45	53	52	0
03	EASS2DL	52 D	54 D	87 D	42 D	49 D	31 D	44 D	47 D	0
04	EASS3	52	54	81	42	63	36	44	47	0
05	EASS4	62	73	84	57	53	67	58	63	0
06	EASS5	55	68	78	54	49	42	54	57	0
07	EASS6	62	77	88	60	56	40	61	62	0
08	EASS7	59	71	88	54	50	54	55	59	0
09	EASS8	53	57	92	49	39	20	34	52	0
10	EASS8RE	54	59	83	49	45	21	34	52	0
11	EASS9	52	59	89	46	42	58	46	53	0
12	EAST0	65	75	91	51	49	65	54	65	0
13	EAST1	49	51	94	41	42	36	33	51	0
14	EAST1RE	56	56	82	40	54	39	33	47	0
15	EAST2	60	68	92	50	50	52	48	59	0
6	EAST3	52	64	94	46	48	65	46	53	0
17	EAST4	50	52	77	37	42	49	40	47	0
18	EAST5	52	55	94	46	48	58	46	54	0
19	EAST6	53	67	92	47	48	34	47	49	0
20	EAST6DL	51 D	70 D	83 D	46 D	45 D	27 D	46 D	49 D	0
21	EAST7	56	69	81	54	56	47	55	50	0
22	EAST8	73	81	90	61	70	67	67	69	0
23	EAST9	49	57	76	46	52	43	49	48	0
24	EASW0	51	55	90	43	47	66	46	52	0
25	EASS1MS	65	76	79	63	55	47	64	62	0
26	EASS1MSD	56	71	85	56	45	52	54	50	0
27	SBLK01	40	47	75	35	33	37	37	48	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Matrix Spike - EPA Sample No.: EASS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3200	0	3059	96 *	26- 90
2-Chlorophenol	3200	0	2346	73	25-102
1,4-Dichlorobenzene	2140	0	1348	63	28-104
N-Nitroso-di-n-prop.(1)	2140	0	1909	89	41-126
1,2,4-Trichlorobenzene	2140	0	1587	74	38-107
4-Chloro-3-methylphenol	3200	0	3399	106 *	26-103
Acenaphthene	2140	238.1	1968	81	31-137
4-Nitrophenol	3200	0	4465	140 *	11-114
2,4-Dinitrotoluene	2140	0	2722	127 *	28- 89
Pentachlorophenol	3200	0	0	0 *	17-109
Pyrene	2140	2686	4816	100	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3200	2572	80	18	35	26- 90
2-Chlorophenol	3200	2057	64	13	50	25-102
1,4-Dichlorobenzene	2140	1045	49	25	27	28-104
N-Nitroso-di-n-prop.(1)	2140	1666	78	13	38	41-126
1,2,4-Trichlorobenzene	2140	1381	65	13	23	38-107
4-Chloro-3-methylphenol	3200	3327	104 *	2	33	26-103
Acenaphthene	2140	1885	77	5	19	31-137
4-Nitrophenol	3200	4598	144 *	3	50	11-114
2,4-Dinitrotoluene	2140	2706	126 *	1	47	28- 89
Pentachlorophenol	3200	0	0 *	0	47	17-109
Pyrene	2140	4623	91	9	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 9 out of 22 outside limits

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: ANALYTICAL RESOURCES INC Contract: 68D50029

Lab Code: ARI Case No.: 24259 SAS No.: _____ SDG No.: EASS1

Lab File ID: F85335MBS Lab Sample ID: F85335MBS

Instrument ID: FINN8 Date Extracted: 12/07/95

Matrix: (soil/water) SOIL Date Analyzed: 12/19/95

Level:(low/med) LOW Time Analyzed: 1554

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EASS1	F85335A	F85335A	12/19/95
02	EASS2	F85335B	F85335B	12/19/95
03	EASS2DL	F85335BDL	F85335BDL	12/20/95
04	EASS3	F85335C	F85335C	12/19/95
05	EASS4	F85335D	F85335D	12/19/95
06	EASS5	F85335E	F85335E	12/19/95
07	EASS6	F85335F	F85335F	12/19/95
08	EASS7	F85335G	F85335G	12/19/95
09	EASS8	F85335H	F85335H	12/19/95
10	EASS8RE	F85335HRE	F85335HRE	12/20/95
11	EASS9	F85335I	F85335I	12/20/95
12	EAST0	F85335J	F85335J	12/20/95
13	EAST1	F85335K	F85335K	12/20/95
14	EAST1RE	F85335KRE	F85335KRE	12/20/95
15	EAST2	F85335L	F85335L	12/20/95
16	EAST3	F85335M	F85335M	12/20/95
17	EAST4	F85335N	F85335N	12/20/95
18	EAST5	F85335O	F85335O	12/20/95
19	EAST6	F85335P	F85335P	12/21/95
20	EAST6DL	F85335PDL	F85335PDL	12/22/95
21	EAST7	F85335Q	F85335Q	12/21/95
22	EAST8	F85335R	F85335R	12/21/95
23	EAST9	F85335S	F85335S	12/21/95
24	EASW0	F85335T	F85335T	12/21/95
25	EASS1MS	F85335AMS	F85335AMS	12/19/95
26	EASS1MSD	F85335AMSD	F85335AMSD	12/19/95

COMMENTS: