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Environmental Resources Management, Inc.

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24 February 1992

Ms. Debra Rossi
Remedial Project Manager
U. S. EPA Region III
841 Chestnut Building
Philadelphia, Pa. 19107

File No.: C64-01-00-01

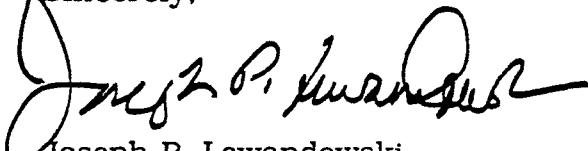
Re: Woodlawn Transfer Station
Cecil County, Maryland
Data Validation Package

Dear Ms. Rossi:

Environmental Resources Management, Inc (ERM) is forwarding to you a revised data validation package for the Woodlawn Transfer Station. In our rush to get to you the validated data package we neglected to include in the Analytical Quality Assurance Report the data for Total Organic Carbon (TOC). The TOC information has been included in this revised report, there has been no change to any other data in the report. Enclosed please find a revised cover page; Attachment 1 Methodology Summary; Attachment 2, Method References; Table 1-1 Summary of Sample Data Reviewed; and Attachment 3, Data Summary Tables Soil Analytical Results. Please replace these pages with the original report. As indicated before, this data is being sent to you in advance of the report at your specific request so that IT Corp can incorporate it into the risk assessment.

If you have any questions, please call me at 410-266-0006.

Sincerely,



Joseph P. Lewandowski

JPL/mwj

cc: B. Belford w/o attachment
K. Gaynor w/o attachment
Diane Sims w/attachment
EPA CRL
Acting Chief Program Support section

A member of the Environmental Resources Management Group with offices worldwide



AR305568

Environmental Resources Management, Inc.

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5 February 1992

Ms. Debra Rossi
Remedial Project Manager
U.S. EPA Region III
841 Chestnut Building
Philadelphia, PA 19107

File No.: C64-01-00-01

Re: Woodlawn Transfer Station
Cecil County, Maryland
Data Validation Package

Dear Ms. Rossi:

Pursuant to your request, Environmental Resources Management, Inc. (ERM) is forwarding to you the data validation package for the Woodlawn Transfer Station. This additional field work was performed on December 5, 1991 in accordance with Work Plan Addendum No. 2 Septic System Investigation Woodlawn Transfer Station Cecil County, Maryland 8 November 1991 and subsequent comments dated 27 November 1991 in a letter to you from ERM.

This data is being sent to you in advance of the report at your specific request so that IT Corp can incorporate it into the risk assessment.

The comprehensive report for all the site investigation activities will be submitted to you on or before March 13, 1992.

If you have any questions, please call me at (410) 266-0006.

Sincerely,

David L. Blye, Jr.
Joseph P. Lewandowski

JPL/mwj

cc: K. Gaynor w/o attachment
B. Belford w/o attachment

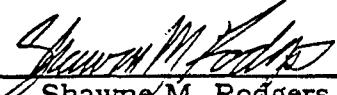
Diann Sims w/attachment
EPA CRL
Acting Chief Program Support Section

**ANALYTICAL QUALITY ASSURANCE REPORT
WOODLAWN PROPERTY TRANSFER
CECIL COUNTY, MARYLAND
SOIL SAMPLES
COLLECTED ON 5 DECEMBER 1991**

5 February 1992
(Revised 20 February 1992)



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Prepared For:
**Woodlawn Property Transfer
Cecil County, Maryland**

Prepared By:
**Environmental Resources Management, Inc.
855 Springdale Drive
Exton, Pennsylvania 19341**

File No.: C64-01-00-01

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SECTION 1 INTRODUCTION

The following analytical quality assurance report is based upon a review of analytical data generated from soil samples and associated blind travel and equipment blanks collected on 5 December 1991 at the Woodlawn Property Transfer site, located in Cecil County, Maryland. A list of the samples that are included in this review are presented in Table 1-1. The analytical methods which were used for these analyses are summarized and referenced in Attachments 1 and 2, respectively. Data summary tables presenting the validated and/or qualified analytical results are included in Attachment 3.

All data for these analyses were reviewed for adherence to the specified analytical protocols. All results have been validated or qualified according to general guidance provided in the "Laboratory Data Validation Functional Guidelines for Evaluating Organic (and Inorganic) Analyses" (US EPA, 2/88 and 7/88).

Table 1-1
Summary Of Sample Data Reviewed
Woodlawn Property Transfer
Cecil County, Maryland

ERM Traffic Report Number	Sample Location	Matrix	Sample Date	Laboratory ID Number	Analytes Performed
41310	SS-2	Soil	12/5/91	34297	[1]
41328	SS-4 (Blind Field Duplicate of SS-2)	Soil	12/5/91	34302	[1]
41313	TSB-5 (2'-4')	Soil	12/5/91	34298	[1]
41314	TSB-5 (4'-6')	Soil	12/5/91	34299	[1]
41321	TSB-6 (4'-6')	Soil	12/5/91	34300	[1]
41327	EB-1 (Equipment Blank)	Aqueous	12/5/91	34301	[1]
41329	Trip Blank	Aqueous	12/5/91	34303	[2]

[1] - TCL Volatile Organic Compounds, TCL Semivolatile Organic Compounds, TCL Pesticide/PCBs, TAL Inorganics, & Total Organic Carbon (TOC).

[2] - TCL Volatile Organic Compounds.

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SECTION 2 ORGANIC DATA

The organic analyses of the soil samples and associated travel and equipment blanks were performed by Gulf State Analytical, Inc., of Houston, Texas. These samples were analyzed for US EPA Contract Laboratory Program (CLP) Target Compound List (TCL) volatile and semivolatile organic compounds and pesticide/PCBs according to the protocols specified in the CLP Statement of Work for Organic Analyses (SOW 3/90). Individual analyses performed for these samples are summarized on the Table 1-1. For the organic fractions analyzed by GC/MS, mass spectral library searches were performed to match sample spectra whose characteristics did not resemble those of the targeted compounds. This was performed for up to ten volatile and twenty semivolatile extraneous peaks. Validated results for these library searches are found in the data summary tables under the heading "Tentatively Identified Compounds" (TICs).

The findings offered in this report are based on a detailed review of the following criteria reported according to the CLP deliverables format: laboratory method and field blank results, surrogate compound spike results, matrix spike/matrix spike duplicate recovery results, laboratory and field duplicate analysis results, bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP) mass tuning results, initial and continuing calibrations, internal standard area performance, pesticide/PCB resolution check sample results, DDD/Endrin breakdown, pesticide compound retention time shifts, quantitation of results, and qualitative mass spectral interpretation.

The organic analyses were performed acceptably, but require a few qualifying statements. It is recommended that the reported analytical results be used only with the qualifying statements provided below. Any aspects of the data which are not qualified in this report should be considered qualitatively and quantitatively valid as reported based on the criteria evaluated. Validated and/or qualified results for the samples are provided in Attachment 3.

2.1 Soil Organic Data Qualifiers

- The positive results reported for bis(2-ethylhexyl)phthalate, dimethylphthalate, and phenanthrene in the soil samples listed in

Table 2-1 are considered qualitatively invalid due to the levels at which these compounds were present in the associated laboratory laboratory method, equipment, and/or travel blanks. US EPA protocol requires that positive results for common laboratory contaminants, such as bis(2-ethylhexyl)phthalate and dimethylphthalate that are less than or equal to ten times the method, equipment, and/or travel blank contamination levels to be qualified as qualitatively invalid. Also, positive results for uncommon laboratory contaminants, such as phenanthrene that are less than or equal to five times the laboratory method, equipment, and/or travel blank contamination levels to be qualified as qualitatively invalid. This has been indicated by placing "B" qualifiers next to the reported quantitative results for bis(2-ethylhexyl)phthalate, dimethylphthalate, and phenanthrene on the data summary tables for these samples.

- The positive results and/or quantitation limits for semivolatile organic compounds in the soil sample SS-4 should be considered a quantitative estimates and may be higher than reported. The holding times for the extraction of this sample for semivolatile organic compounds exceeded the 14-day extraction technical holding time mandated by SW-846 for soil samples. The holding time for this sample was exceeded by 11 days. Because this sample was extracted outside the allowable holding time, loss or degradation of these specified parameters may have occurred. The positive results for semivolatile organic compounds in this sample are marked with "J" qualifiers on the data summary tables to indicate that they are quantitative estimates. The elevated quantitation limits should be noted when assessing the data for the qualitative absence of nondetected semivolatile organic compounds in this sample.
- The positive results reported for acetone in soil samples TSB-5 (2'-4') and TSB-5 (4'-6') should be considered quantitative estimates. The percent difference (%D) between the initial calibration average relative response factor (RRF) and associated continuing calibration relative response factors (RRFs) exceeded the quality control limit of 25 percent. This indicates lack of instrument stability for the analysis of this compound. ERM has placed "J" qualifiers next to reported quantitative results for acetone in these samples on the data summary table to indicate that they are quantitative estimates.

TABLE 2-1
SOIL SAMPLES WITH QUALITATIVELY
INVALID ORGANIC RESULTS

Compound	Affected Samples
Bis(2-ethylhexyl)phthalate	SS-2, TSB-6 (4'-6').
Dimethylphthalate	TSB-5 (4'-6').
Phenanthrene	TSB-5 (2'-4'), TSB-5 (4'-6').



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- Area counts for the semivolatile internal standards chrysene-d₁₂, perylene-d₁₂, and/or phenanthrene-d₁₀, 1,4-dichlorobenzene-d₄, and acenaphthene-d₁₀ were below the quality control limits during the initial semivolatile organic compound analysis of the soil samples listed in Table 2-2. Reanalysis of these samples also resulted in low internal standard area counts for these soil samples. This indicates a substantial drop in instrument sensitivity and/or system performance for the compounds quantitated with these internal standards. Sample results have been reported using the analysis in which the internal standard areas were closer to those of the associated continuing calibration standard. Positive results that are quantitated using these internal standards should be considered quantitative estimates. This has been indicated by placing a "J" qualifier next to the quantitative result on the sample data summary tables. It should be noted that quantitation limits may also be elevated for non-detected semivolatile organic compounds for these soil samples.
- The soil samples listed in Table 2-3 were reanalyzed at dilutions for volatile organic compounds. These dilutions were required because the concentrations of volatile organic compounds toluene and/or xylene (total) detected in the initial analysis exceeded the linear range of the instrument. Positive sample results for these volatile organic compounds in these samples have been reported from diluted analyses. All other results and quantitation limits for these samples are reported from the initial analysis.
- Semivolatile organic compounds and pesticide/PCBs were detected in soil sample SS-4 and its blind field duplicate SS-4 at significantly different concentrations. The relative percent difference (RPD) of these compounds for positive results in the original samples and its blind duplicate were calculated and are summarized in the Table 2-4. The RPD for the semivolatile organic compounds and pesticide/PCBs which were detected only in sample SS-4 could not be calculated and are not shown on Table 2-4.

The calculated RPDs for the these pesticides/PCBs exceeded ERM's duplicate precision criteria of 35% for soil pesticides/PCBs analyses. These elevated RPDs indicate a lack of sample homogeneity or analytical precision for these compounds. This has been indicated by placing a "J" qualifier next to the quantitative results for these compounds in the original samples

TABLE 2-2
SOIL SAMPLES WITH
LOW INTERNAL STANDARD AREAS FOR SEMIVOLATILE
ORGANIC COMPOUNDS

Sample	Internal Standards with Low Areas
SS-2	Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
SS-2 RE	Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
TSB-5 (2'-4')	Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
TSB-5 (2'-4') RE	Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
TSB-5 (4'-6')	1,4-Dichlorobenzene Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
TSB-5 (4'-6') RE	Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
TSB-6 (4'-6')	Chrysene-d ₁₂ Perylene-d ₁₂
TSB-6 (4'-6') RE	Chrysene-d ₁₂ Perylene-d ₁₂



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TABLE 2-2 (CONTINUED)
SOIL SAMPLES WITH
LOW INTERNAL STANDARD AREAS FOR SEMIVOLATILE
ORGANIC COMPOUNDS

Sample	Internal Standards with Low Areas
SS-4	Acenaphthene-d ₁₀ Phenanthrene-d ₁₀ Chrysene-d ₁₂ Perylene-d ₁₂
SS-4 RE	Phenanthrene-d ₁₀ Chrysene-d ₁₂



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TABLE 2-3
SOIL SAMPLES REANALYZED FOR VOLATILES AT DILUTIONS

<u>Sample</u>	<u>Fraction</u>	<u>Dilution Factor</u>
TSB-5 (2'-4')	volatile	2.5 and 5
TSB-5 (4'-6')	volatile	2 and 5

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TABLE 2-4
**SUMMARY OF BLIND FIELD DUPLICATE SEMIVOLATILE ORGANIC
 COMPOUNDS AND PESTICIDE/PCBS RESULTS AND PRECISION**

<u>Compound</u>	<u>SS-2</u>	<u>SS-4 (Blind Duplicate)</u>	<u>RPD (%)</u>
Endosulfan I	410 µg/Kg	250 µg/Kg	49
Endosulfan II	280 µg/Kg	180 µg/Kg	44
Alpha Chlordane	180 µg/Kg	100 µg/Kg	57
Benzo(g,h,i)perylene	230 µg/Kg	120 µg/Kg	63

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and their blind duplicates, respectively, on the data summary table. ERM conservatively recommends use of the highest concentrations reported for these compounds.

- As required by US EPA protocols, all tentatively identified compounds (TICs) detected in soil samples have been marked with "J" qualifiers in the data summary tables to indicate that they are quantitative estimates. ERM has regrouped the TICs according to chemical classification and reported on the data summary table only those TICs which are demonstrated not to be the result of laboratory contamination or an instrument artifact.
- As required by US EPA protocol compounds which were qualitatively identified at concentrations below their respective Contract Required Quantitation Limits (CRQLs) have been qualified with "J" qualifiers on the data summary tables to indicate that they are quantitative estimates.

SECTION 3 INORGANIC DATA

The inorganic analyses of soil samples and associated travel and field blanks were performed by Gulf State Analytical, Inc., of Houston, Texas. These samples were analyzed for US EPA Contract Laboratory Program (CLP) Target Analyte List (TAL) metals according to the protocols specified in the CLP Statement of Work for Inorganics Analysis (SOW 7/88). Individual analyses performed for these samples are summarized on the Table 1-1.

The findings offered in this report are based on a detailed review of the following criteria reported according the CLP deliverables format: chain of custody documentation, holding times, laboratory method, travel and field blank analyses, matrix spike recoveries, detection limits, laboratory duplicate analyses, laboratory control samples (LCS), initial and continuing calibration verifications, ICP interference check sample results, ICP serial dilution analyses, graphite furnace atomic absorption duplicate burn precision, post-digestion spike recoveries, and quantitation of positive results.

The inorganic analyses were performed acceptably, but require the following qualifying statements. It is recommended that the data be utilized only with the qualifying statements presented below. Any data which are not qualified in this report should be considered qualitatively and quantitatively valid as reported based on the criteria evaluated. Validated and/or qualified results for the samples are provided on the attached sample data summary tables.

3.1 Soil Inorganic Data Qualifiers

- Positive results reported for antimony, beryllium, and sodium in the soil samples listed in Table 3-1 are considered qualitatively invalid due to the concentrations at which these analytes were present in the associated laboratory method, equipment and/or travel blank. US EPA protocol requires that positive results for contaminants, such as antimony, beryllium, and sodium that are less than or equal to five times the laboratory method, equipment or travel blank contamination levels to be qualified as qualitatively invalid. This has been indicated by placing a "B" qualifier next to the reported quantitative results for these analytes in these samples in the data summary tables.

- The positive results and/or detection limits reported for antimony, arsenic and barium in all soil samples should be considered quantitative estimates and may be higher than reported. The associated matrix spike recoveries for these samples were below the established quality control (QC) limits for these analytes. This has been indicated by placing a "J" qualifier next to the reported quantitative results for antimony (excluding samples SS-2 and SS-4 which have already been qualified as "qualitatively invalid"), arsenic and barium for these samples in the data summary tables. The possibility of elevated detection limits for antimony, arsenic and barium should be noted when considering the data for the qualitative absence of these analytes in these samples.
- The positive results reported for chromium, manganese, and silver in all soil samples should be considered a quantitative estimates and may be lower than reported. The associated matrix spike recoveries were above the established quality control (QC) limits for these analytes. Positive results for chromium, manganese, and silver in soil samples have been marked with "J" qualifiers on the data summary tables to indicate that they are quantitative estimates.
- Because the presence of matrix interferences were indicated during the graphite furnace post-digestion spike analyses, positive results for arsenic in all soil samples and lead in soil sample TSB-5 (2'-4') were determined by the method of standard addition (MSA). The MSA correlation coefficients were acceptable for all samples.
- The positive results reported for zinc in all the soil samples listed should be considered quantitative estimates. The ICP serial dilution analyses associated with these samples exceeded the allowable 10% difference between the undiluted and diluted analytical results for these analytes. This indicates a physical or chemical interference effect. The fact that the positive results for zinc in the soil are quantitative estimates has been indicated by placing a "J" qualifier next to the reported quantitative results for this analyte on the data summary table.
- Inorganic analytes were detected in soil sample SS-4 and its blind field duplicate SS-4 at significantly different concentrations. The relative percent difference (RPD) of these analytes in the original samples and its blind duplicate were calculated and are

summarized in the Table 3-2. The RPD for the analytes which have already been qualified as "qualitatively invalid" or "quantitative estimates" as a result of earlier finding are not included in this Table 3-2.

The calculated RPDs for the these analytes exceeded ERM's duplicate precision creteria of 35% for soil inorganic analyses. These elevated RPDs indicate a lack of sample homogeneity or analytical precision for these analytes. This has been indicated by placing a "J" qualifier next to the quantitative results for these compounds in the original samples and their blind duplicates, respectively, on the data summary table. ERM conservatively recommends use of the highest concentrations reported for these analytes.

TABLE 3-1
SOIL SAMPLES WITH QUALITATIVELY
INVALID INORGANIC RESULTS

Compound	Affected Samples
Antimony	SS-2, SS-4
Beryllium	TSB-5 (2'-4'), TSB-5 (4'-6'), SS-4
Sodium	SS-2, TSB-5 (4'-6'), TSB-6 (4'-6'), SS-4



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TABLE 3-2
SUMMARY OF BLIND FIELD DUPLICATE INORGANIC ANALYTE
RESULTS AND PRECISION

<u>Compound</u>	<u>SS-2</u>	<u>SS-4 (Blind Duplicate)</u>	<u>RPD (%)</u>
Calcium	445 mg/Kg	722 mg/Kg	48
Copper	52.4 mg/Kg	37.4 mg/Kg	33
Lead	86.1 mg/Kg	50 mg/Kg	53
Mercury	1.20 mg/Kg	0.50 mg/Kg	63

AR305588



SECTION 4 SUMMARY

The analyses were performed acceptably, but required a few qualifying statements. This quality assurance report has identified the aspects of the analytical data that have required qualification. A support documentation package containing specific details discussed in this quality assurance report has been filed with the Woodlawn Property Transfer, Cecil County, Maryland site project.

**ATTACHMENT 1
METHODOLOGY SUMMARY**



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METHODOLOGY SUMMARY

Analysis for Moisture

A well-mixed sample is placed in a weighed beaker and dried to constant weight in an oven at 103-105° C. The decrease in weight of the sample is proportional to the moisture content.

Analysis for Volatile Organic Compounds by GC/MS

The soil samples were analyzed for TCL volatile organic compounds by adding five-gram (wet weight) sample aliquot or 5 mL of water sample to reagent water containing surrogate compounds and internal standards and purging the mixture with helium at ambient temperature. The volatile compounds were transferred from the aqueous phase to the vapor phase and trapped onto a sorbent column. After purging, the column was heated and backflushed to desorb the compounds onto a gas chromatographic column. The gas chromatograph was temperature programmed to separate the sample components, which were then detected by a mass spectrometer. The target compounds were qualitatively identified and quantitated through calibration with standards.

Analysis for Semivolatile Organics by GC/MS

Thirty gram (wet weight) of the soil are extracted with 1:1 methylene chloride and acetone by sonic disruption. The extract is decanted and filtered. The extraction is repeated two or more times, decanting after each sonication. Aqueous samples are extracted with methylene chloride at both acidic and basic pH using a separatory funnel. The extract is then concentrated and analyzed by first separating the extract components using a gas chromatographic column and then detecting them with a mass spectrometer for qualitative and quantitative evaluation.

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METHODOLGY SUMMARY (CONT.)

Analysis for Pesticide/PCBs

Thirty grams of the sample was extracted with 1:1 methylene chloride to acetone using sonication technique for soil analyses. The extract was exchanged with hexane. A 1-liter aqueous sample was extracted with a separatory funnel using methylene chloride. The methylene chloride extract was dried, exchanged with hexane, and adjusted to final volume of 10-milliliters. The resulting extract is analyzed by Gas Chromatography using electron capture detector (ECD).

Analysis for Aluminum, Antimony, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Silver, Sodium, Vanadium and Zinc by ICP

Prior to analysis 100-milliliter sample aliquots were digested with nitric and hydrochloric acid. One gram sample aliquots were digested for soil analysis. The solution resulting from the metals digestion is analyzed by Inductively Coupled Plasma (ICP) Emission Spectroscopy.

Analysis for Arsenic, Lead, Thallium and Selenium

Prior to analysis 100-milliliter sample aliquots were digested with nitric and hydrogen peroxide for aqueous analysis. One gram sample aliquots were digested for soil analysis. The solution resulting from the metals digestion is analyzed by Graphite Furnace Atomic Absorption (GFAA).

Analysis for Mercury

The sample is prepared by heating at 95°C with nitric acid, sulfuric acid, potassium permanganate, and potassium persulfate. The analysis is performed by Cold Vapor Atomic Absorption.

Analysis for Total Organic Carbon

Organic carbon in a sample is converted to carbon dioxide (CO₂) by catalytic combustion or wet chemical oxidation. The CO₂ formed can be measured directly by an infrared detector. The amount of CO₂ is directly proportional to the concentration of the carbonaceous material in the sample.

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ATTACHMENT 2
METHOD REFERENCES

AR305593



METHOD REFERENCES

<u>Analysis</u>	<u>Reference</u>
Moisture	US EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, Office of R and D, US EPA -EMSL, Cincinnati, Ohio, March 1983, Method 160.3.
TCL Volatile Organic Compounds	US EPA Contract Laboratory Program SOW 3/90.
TCL Semivolatile Organic Compounds	US EPA Contract Laboratory Program SOW 3/90.
TCL Pesticide/PCBs	US EPA Contract Laboratory Program SOW 3/90.
TAL Metals	US EPA Contract Laboratory Program SOW 3/90.
Total Organic Carbon	US EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, Office of R and D, US EPA -EMSL, Cincinnati, Ohio, March 1983, Method 415.1.

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ATTACHMENT 3
SAMPLE DATA SUMMARY TABLES



AR305595

Soil Analytical Results
Woodlawn Property Transfer
Cecil County, Maryland
(All results are reported on a dry weight basis)

Sample Location	SS-2	SS-4†	TSB-6 (2'-4')	TSB-6 (4'-6")	TSB-6 (4'-6")	EB-1 (Equipment Blank)	Trip Blank
ERM T.R. Number	41310	41328*	41313	41314*	41321	41327	41329
Sample Date	12/5/91	12/5/91	12/5/91	12/5/91	12/5/91	12/5/91	12/5/91
Percent Moisture	18.0	17.0	18.4	18.7	18.3	NA	NA
Units	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/L	µg/L
Volatile Organic Compounds	ND	ND				ND	ND
Acetone	12	U	12	U	32	J	41
Toluene	12	U	12	U	200		56
Ethylbenzene	12	U	12	U	120		100
Xyrene (total)	12	U	12	U	980		1800
							25
Tentatively Identified Volatile Organic Compounds							ND
Trichlorotrifluoroethane isomer	11	J	10	J			
Alkylcyclohexane isomer					56	J	150
Total Unknown Aliphatic Hydrocarbons					2400	J	700
Total Alkylbenzene isomer					930	J	700
Semivolatile Organic Compounds							NA
1,2,4-Trichlorobenzene	400	U	400	U	410	U	50
Naphthalene	400	U	130	J	470		560
2-Methylnaphthalene	400	U	48	J	680		560
Dimethylphthalate	400	U	400	U	410	U	48
Acenaphthene	400	U	400	U	410	U	84
Dibenzofuran	400	U	400	U	410	U	400
Fluorene	400	U	400	U	410	U	300
Diethylphthalate	400	U	55	J	410	U	400
Phenanthrene	400	U	63	J	180	B	200
Di-n-butylphthalate	400	U	69	J	150	J	150
Fluoranthene	400	U	53	J	410	U	40
Pyrene	400	U	400	U	380	J	280
Chrysene	400	U	340	J	410	U	400
Ethyl(2-ethylhexyl)phthalate	830	B	3000	J	2200	J	2900
Di-n-octylphthalate	400	U	400	U	410	U	50
Benzo[b]fluoranthene	400	U	320	J	410	U	400
Benzo(a)pyrene	400	U	310	J	410	U	400
Indeno[1,2,3-cd]pyrene	400	U	350	J	410	U	400
Benzo[ghi]perylene	400	U	520	J	410	U	400
Tentatively Identified Semivolatile Organic Compounds							NA
Total Unknown	9700	J	29000	J	800	J	5000
Total Unknown Aliphatic Hydrocarbon	560	J	830	J	21000	J	27000
Total Alkylphenol	3600	J	28000	J			780
Alkyl Cyclohexadiene	450	J					500
Substituted 1-H Indene	540	J	1100	J			
Alkyl Naphthalene					1200	J	1800
Tridecane					870	J	1400
Tetradecane					1800	J	1700
Thiotiane isomer							16
Hexatetracone							23
Pesticides/PCBs (µg/Kg)							NO
Alpha-BHC	7.8		10		26.0	U	8.2
Beta-BHC	15.6	U	8.2	U	8.4	U	32.0
Endosulfan I	410	J	250	J	130		480
Endosulfan II	280	J	180	J	58		210
Endosulfan Sulfate	32.2	U	150	J	16.3	U	15.9
Alpha-Chlordane	180	J	100	J	51		140
Gamma-Chlordane	230	J	120	J	38		85
							70

B: This result is qualitatively invalid because the compound was also detected in a blank at a similar concentration.

J: This result should be considered a quantitative estimate.

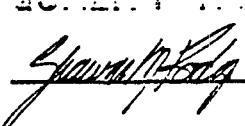
ND: Not detected.

NA: Not Analyzed

U: This compound was analyzed but not detected. The numerical value reported represents the quantitation limit of the compound.

* - Results for the semivolatile organic compounds for this sample are reported from the reanalysis.

† - This sample is the blind field duplicate of soil sample SS-2.

APPROVED FOR	RELEASE BY
QUALITY CONTROL	DATE
 2/10/92	

AR305596

Self Analytical Results
Woodlawn Property Transfer
Cecil County, Maryland
(All results are reported on a dry weight basis)

Sample Location	SS-2	SS-4†	TBB-5 (Z-4)	TBB-5 (4'-6')	TBB-6 (4'-6")	EB-1 (Equipment Blank)	Trip Blank
ERM T.R. Number	41310	41328	41313	41314	41321	41327	41328
Sample Date	12/6/91	12/6/91	12/6/91	12/6/91	12/6/91	12/6/91	12/6/91
Percent Measure	18.0	17.0	19.4	18.7	18.3	ND	NA
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L	NA
Inorganic							NA
Aluminum	10400	8300	8550	8830	7780	76.6	
Antimony	6	B	8.3	B	12	U	60
Arsenic	22.1	J	18.0	J	4.4	J	10.0
Barium	63.9	J	58.2	J	54.0	J	200
Beryllium	0.6		0.3	B	0.3	B	5.0
Cadmium	1.0	U	0.9		1.1	U	5.0
Calcium	445	J	722	J	370		5000
Chromium	23.0	J	18.9	J	14.0	J	10.0
Cobalt	3.5		3.3		3.8		30.0
Copper	52.4	J	37.4	J	6.7		25.0
Iron	15700		13300		13800		88.7
Lead	84.1	J	50.0	J	21.4		3.0
Magnesium	1160		882		742		5000
Manganese	61.5	J	117	J	149	J	15
Mercury	1.20	J	0.50	J	0.81		0.20
Nickel	7.6		6.7		6.5		40.0
Potassium	531		501		610		5000
Selenium	0.8		0.6		0.7		5.0
Silver	2.0	U	2.0	U	2.0	U	10.0
Sodium	80	B	52.4	B	68.1	B	5000
Thallium	2.0	U	2.0	U	2.0	U	10.0
Vanadium	31.6		28.6		34.6		50.0
Zinc	77.0	J	67.2	J	24.1	J	31.8
Cyanide	2.0	U	2.0		2.0	U	10.0
Wet Chemistry Parameter							NA
Total Organic Carbon	21300		22200		10100		3780
							1000
							U

B: This result is qualitatively invalid because the analyte was also detected in a blank at a similar concentration.

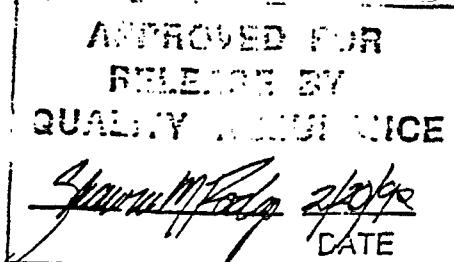
J: This result should be considered a quantitative estimate.

ND: Not detected.

NA: Not Analyzed

U: This compound was analyzed but not detected. The numerical value reported represents the quantitation/detection limit of the analyte.

†: This sample is the blind field duplicate of soil sample SS-2.



AR305597

VOLATILE ORGANICS ANALYSIS DATA SHEET

041310 SS-2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297 _____Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346I _____Level: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 18 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (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

AR305598

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041310 SS2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346ILevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 18 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. <u>76131</u>	<u>Ethane 1,1,2-Trichloro-1,2,2</u>	<u>3.91</u>	<u>11</u>	
2.				
3.				
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AR305599

VOLATILE ORGANICS ANALYSIS DATA SHEET

041313 TSB-5 2'-4'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298Sample wt/vol.: 5 (g/mL) G Lab File ID: C346JLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 19 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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	32	
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-Dichloroproppane	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	360	E
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	120	
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene(total)	720	E

ME 200 1, 1, 1)

980

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041313 TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346JLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 19 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. <u>108872</u>	<u>Methyl cyclohexane</u>	<u>13.98</u>	<u>56</u>	
2. _____	<u>Aliphatic hydrocarbon</u>	<u>18.28</u>	<u>69</u>	
3. _____	<u>Alicyclic hydrocarbon</u>	<u>18.72</u>	<u>57</u>	
4. _____	<u>Aliphatic hydrocarbon</u>	<u>20.35</u>	<u>1000</u>	
5. _____	<u>Aliphatic hydrocarbon</u>	<u>20.91</u>	<u>180</u>	
6. _____	<u>Aliphatic hydrocarbon</u>	<u>21.39</u>	<u>260</u>	
7. _____	<u>Aliphatic hydrocarbon</u>	<u>22.24</u>	<u>540</u>	
8. _____	<u>Aliphatic hydrocarbon</u>	<u>22.47</u>	<u>310</u>	
9. _____	<u>Ethyl methyl benzene isomer</u>	<u>22.70</u>	<u>330</u>	
10. _____	<u>Trimethyl benzene isomer</u>	<u>22.89</u>	<u>600</u>	
11. _____				
12. _____				
13. _____				
14. _____				
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16. _____				
17. _____				
18. _____				
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20. _____				
21. _____				
22. _____				
23. _____				
24. _____				
25. _____				
26. _____				
27. _____				
28. _____				
29. _____				
30. _____				

FORM I VOA-TIC

055

3/90

Total Aliphatic Over 10% = 2460 J
Total Aromatic over 10% = 950 J

AR305601

VOLATILE ORGANICS ANALYSIS DATA SHEET

041313 TSB-5 2'-4'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298DLSample wt/vol.: 1 (g/mL) G Lab File ID: >C347LLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 19 Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 5.0

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

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

CAS NO.	COMPOUND	Q
74-87-3-----	Chloromethane	62
74-83-9-----	Bromomethane	62
75-01-4-----	Vinyl Chloride	62
75-00-3-----	Chloroethane	62
75-09-2-----	Methylene Chloride	62
67-64-1-----	Acetone	62
75-15-0-----	Carbon Disulfide	62
75-35-4-----	1,1-Dichloroethene	62
75-34-3-----	1,1-Dichloroethane	62
540-59-0-----	1,2 Dichloroethene (total)	62
67-66-3-----	Chloroform	62
107-06-2-----	1,2-Dichloroethane	62
78-93-3-----	2-Butanone	62
71-55-6-----	1,1,1-Trichloroethane	62
56-23-5-----	Carbon Tetrachloride	62
75-27-4-----	Bromodichloromethane	62
78-87-5-----	1,2-Dichloropropane	62
10061-01-5-----	cis-1,3-Dichloropropene	62
79-01-6-----	Trichloroethene	62
124-48-1-----	Dibromochloromethane	62
79-00-5-----	1,1,2-Trichloroethane	62
71-43-2-----	Benzene	62
10061-02-6-----	trans-1,3-Dichloropropene	62
75-25-2-----	Bromoform	62
108-10-1-----	4-Methyl-2-Pentanone	62
591-78-6-----	2-Hexanone	62
127-18-4-----	Tetrachloroethene	62
79-34-5-----	1,1,2,2-Tetrachloroethane	62
108-88-3-----	Toluene	110
108-90-7-----	Chlorobenzene	62
100-41-4-----	Ethylbenzene	160
100-42-5-----	Styrene	62
1330-20-7-----	Xylene(total)	980

AR305602

VOLATILE ORGANICS ANALYSIS DATA SHEET

041313 TSB-5 2'-4'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298DLSample wt/vol.: 2 (g/mL) G Lab File ID: >C350ILevel: (low/med) LOW Date Received: 12/07/91Moisture: not dec. 19 Date Analyzed: 12/16/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 2.5

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGQ

CAS NO.	COMPOUND	31	U
74-87-3-----	Chloromethane	31	U
74-83-9-----	Bromomethane	31	U
75-01-4-----	Vinyl Chloride	31	U
75-00-3-----	Chloroethane	31	U
75-09-2-----	Methylene Chloride	31	U
67-64-1-----	Acetone	72	D
75-15-0-----	Carbon Disulfide	31	U
75-35-4-----	1,1-Dichloroethene	31	U
75-34-3-----	1,1-Dichloroethane	31	U
540-59-0-----	1,2 Dichloroethene (total)	31	U
67-66-3-----	Chloroform	31	U
107-06-2-----	1,2-Dichloroethane	31	U
78-93-3-----	2-Butanone	31	U
71-55-6-----	1,1,1-Trichloroethane	31	U
56-23-5-----	Carbon Tetrachloride	31	U
75-27-4-----	Bromodichloromethane	31	U
78-87-5-----	1,2-Dichloropropane	31	U
10061-01-5-----	cis-1,3-Dichloropropene	31	U
79-01-6-----	Trichloroethene	31	U
124-48-1-----	Dibromochloromethane	31	U
79-00-5-----	1,1,2-Trichloroethane	31	U
71-43-2-----	Benzene	31	U
10061-02-6-----	trans-1,3-Dichloropropene	31	U
75-25-2-----	Bromoform	31	U
108-10-1-----	4-Methyl-2-Pentanone	31	U
591-78-6-----	2-Hexanone	31	U
127-18-4-----	Tetrachloroethene	31	U
79-34-5-----	1,1,2,2-Tetrachloroethane	31	U
108-88-3-----	Toluene	200	D
108-90-7-----	Chlorobenzene	31	U
100-41-4-----	Ethylbenzene	430	D
100-42-5-----	Styrene	31	U
1330-20-7-----	Xylene(total)	2500	DE

AR305603

VOLATILE ORGANICS ANALYSIS DATA SHEET

041314 TSB-5 4'-6'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346KLevel: (low/med) LOW Date Received: 12/07/91% Moisture: not dec. 17 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND	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	41	
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	56	
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	100	
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene(total)	580	E

AR305604

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041314 TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAT Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346KLevel: (low/med) LOW Date Received: 12/07/91Moisture: not dec. 17 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. <u>108872</u>	<u>Methyl cyclohexane</u>	<u>13.97</u>	<u>31</u> ←	
2. _____	<u>Aliphatic hydrocarbon</u>	<u>18.27</u>	<u>26</u> ✓	
3. _____	<u>Aliphatic hydrocarbon</u>	<u>20.36</u>	<u>270</u> ✓	
4. <u>1678928</u>	<u>Propyl cyclohexane</u>	<u>21.24</u>	<u>120</u> ✗	
5. _____	<u>Aliphatic hydrocarbon</u>	<u>21.37</u>	<u>130</u> ✓	
6. _____	<u>Aliphatic hydrocarbon</u>	<u>21.58</u>	<u>150</u> ✓	
7. _____	<u>Aliphatic hydrocarbon</u>	<u>22.20</u>	<u>160</u>	
8. <u>103651</u>	<u>Propyl benzene</u>	<u>22.46</u>	<u>150</u> ✗	
9. _____	<u>Ethyl methyl benzene isomer</u>	<u>22.69</u>	<u>260</u> ✓	
10. _____	<u>Trimethyl benzene isomer</u>	<u>22.90</u>	<u>290</u> ✓	
11. _____				
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FORM I VOA-TIC

129

3/90

Total Methyl Cyclohexane = 15C
Total Aliphatic Hydrocarbons = 71
Total Aromatic Hydrocarbons = 157

AR305605

VOLATILE ORGANICS ANALYSIS DATA SHEET

041314 TSB-5 4'-6'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299DLSample wt/vol.: 2.5 (g/mL) G Lab File ID: >C350FLevel: (low/med) LOW Date Received: 12/07/91% Moisture: not dec. 17 Date Analyzed: 12/16/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 2.0

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

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

CAS NO.	COMPOUND	Q
74-87-3-----	Chloromethane	24
74-83-9-----	Bromomethane	24
75-01-4-----	Vinyl Chloride	24
75-00-3-----	Chloroethane	24
75-09-2-----	Methylene Chloride	24
67-64-1-----	Acetone	46
75-15-0-----	Carbon Disulfide	24
75-35-4-----	1,1-Dichloroethene	24
75-34-3-----	1,1-Dichloroethane	24
540-59-0-----	1,2 Dichloroethene (total)	24
67-66-3-----	Chloroform	24
107-06-2-----	1,2-Dichloroethane	24
78-93-3-----	2-Butanone	24
71-55-6-----	1,1,1-Trichloroethane	24
56-23-5-----	Carbon Tetrachloride	24
75-27-4-----	Bromodichloromethane	24
78-87-5-----	1,2-Dichloropropane	24
10061-01-5-----	cis-1,3-Dichloropropene	24
79-01-6-----	Trichloroethene	24
124-48-1-----	Dibromochloromethane	24
79-00-5-----	1,1,2-Trichloroethane	24
71-43-2-----	Benzene	24
10061-02-6-----	trans-1,3-Dichloropropene	24
75-25-2-----	Bromoform	24
108-10-1-----	4-Methyl-2-Pentanone	24
591-78-6-----	2-Hexanone	24
127-18-4-----	Tetrachloroethene	24
79-34-5-----	1,1,2,2-Tetrachloroethane	24
108-88-3-----	Toluene	98
108-90-7-----	Chlorobenzene	24
100-41-4-----	Ethylbenzene	240
100-42-5-----	Styrene	24
1330-20-7-----	Xylene (total)	1300

AR305606

VOLATILE ORGANICS ANALYSIS DATA SHEET

041314 TSB-5 4'-6'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299DLSample wt/vol.: 1 (g/mL) G Lab File ID: >C352GLevel: (low/med) LOW Date Received: 12/07/91Moisture: not dec. 17 Date Analyzed: 12/18/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	60	U
74-83-9-----	Bromomethane	60	U
75-01-4-----	Vinyl Chloride	60	U
75-00-3-----	Chloroethane	60	U
75-09-2-----	Methylene Chloride	60	U
67-64-1-----	Acetone	60	U
75-15-0-----	Carbon Disulfide	60	U
75-35-4-----	1,1-Dichloroethene	60	U
75-34-3-----	1,1-Dichloroethane	60	U
540-59-0-----	1,2 Dichloroethene (total)	60	U
67-66-3-----	Chloroform	60	U
107-06-2-----	1,2-Dichloroethane	60	U
78-93-3-----	2-Butanone	60	U
71-55-6-----	1,1,1-Trichloroethane	60	U
56-23-5-----	Carbon Tetrachloride	60	U
75-27-4-----	Bromodichloromethane	60	U
78-87-5-----	1,2-Dichloropropane	60	U
10061-01-5-----	cis-1,3-Dichloropropene	60	U
79-01-6-----	Trichloroethene	60	U
124-48-1-----	Dibromochloromethane	60	U
79-00-5-----	1,1,2-Trichloroethane	60	U
71-43-2-----	Benzene	60	U
10061-02-6-----	trans-1,3-Dichloropropene	60	U
75-25-2-----	Bromoform	60	U
108-10-1-----	4-Methyl-2-Pentanone	60	U
591-78-6-----	2-Hexanone	60	U
127-18-4-----	Tetrachloroethene	60	U
79-34-5-----	1,1,2,2-Tetrachloroethane	60	U
108-88-3-----	Toluene	120	D
108-90-7-----	Chlorobenzene	60	U
100-41-4-----	Ethylbenzene	300	D
100-42-5-----	Styrene	60	U
1330-20-7-----	Xylene(total)	1800	D

VOLATILE ORGANICS ANALYSIS DATA SHEET

041321 TSB-6 4'-6'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300Sample wt/vol.: 5 (g/mL) G Lab File ID: >C347KLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 15 Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND	Q
74-87-3-----	Chloromethane	12
74-83-9-----	Bromomethane	12
75-01-4-----	Vinyl Chloride	12
75-00-3-----	Chloroethane	12
75-09-2-----	Methylene Chloride	12
67-64-1-----	Acetone	52
75-15-0-----	Carbon Disulfide	12
75-35-4-----	1,1-Dichloroethene	12
75-34-3-----	1,1-Dichloroethane	12
540-59-0-----	1,2 Dichloroethene (total)	12
67-66-3-----	Chloroform	12
107-06-2-----	1,2-Dichloroethane	12
78-93-3-----	2-Butanone	12
71-55-6-----	1,1,1-Trichloroethane	12
56-23-5-----	Carbon Tetrachloride	12
75-27-4-----	Bromodichloromethane	12
78-87-5-----	1,2-Dichloroproppane	12
10061-01-5-----	cis-1,3-Dichloropropene	12
79-01-6-----	Trichloroethene	12
124-48-1-----	Dibromochloromethane	12
79-00-5-----	1,1,2-Trichloroethane	12
71-43-2-----	Benzene	12
10061-02-6-----	trans-1,3-Dichloropropene	12
75-25-2-----	Bromoform	12
108-10-1-----	4-Methyl-2-Pentanone	12
591-78-6-----	2-Hexanone	12
127-18-4-----	Tetrachloroethene	12
79-34-5-----	1,1,2,2-Tetrachloroethane	12
108-88-3-----	Toluene	9
108-90-7-----	Chlorobenzene	12
100-41-4-----	Ethylbenzene	15
100-42-5-----	Styrene	12
1330-20-7-----	Xylene (total)	25

041321 TSB6

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAT Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300Sample wt/vol.: 5 (g/mL) G Lab File ID: >C347KLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 15 Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aliphatic hydrocarbon	18.27	10 -	
2.	Trimethyl cyclohexane isomer	18.73	9 ←	
3.	Aliphatic hydrocarbon	20.34	18 -	
4.	Ethylmethylcyclohexaneisomer	20.50	13 ←	
5.	Dimethyl benzene isomer	20.66	6	
6.	Aliphatic hydrocarbon	20.89	45 -	
7.1678928	Propyl cyclohexane	21.24	82 ←	
8.	Aliphatic hydrocarbon	22.18	150 -	
9.	Aliphatic hydrocarbon	22.46	120 -	
10.	Alicyclic hydrocarbon	22.87	110 -	
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FORM I VOA-TIC

204

3/90

Total Alkyl Cyclohexane = 6 J

Total Unkn. Alk. HHC = 450 J

Total Alkylbenzene = 6 J

AR305609

VOLATILE ORGANICS ANALYSIS DATA SHEET

041327 EB-1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347HLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. _____ Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041327 EB1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347HLevel: (low/med) LOW Date Received: 12/07/91% Moisture: not dec. Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
 Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR305611

041328 SS-4

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346MLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 17 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND	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

AR305612

041328 SS4

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302Sample wt/vol.: 5 (g/mL) G Lab File ID: >C346MLevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. 17 Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.76131	Ethane 1,1,2-Trichloro-1,2,2	3.92	10	
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AR305613

VOLATILE ORGANICS ANALYSIS DATA SHEET

041329 TRIP BLANK

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34303Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347ILevel: (low/med) LOW Date Received: 12/07/91% Moisture: not dec. Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS041329
TRIP BLANKLab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34303Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347ILevel: (low/med) LOW Date Received: 12/07/91* Moisture: not dec. Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/LNumber TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR305615

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041310SS2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361KLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 18 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	970	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	970	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	970	U
83-32-9-----	Acenaphthene	400	U

AR305616

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041310 SS-2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297Sample wt/vol.: 30 (g/mL) G Lab File ID: >D361KLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____Number TICs found: 23CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.13	2100 ✓	JB
2.	Unknown	7.18	870 ✓✓	J
3.	Unknown	8.33	1500 ✓✓	J
4.	Aldol condensate	8.92	340 ✓	JB
5.	Unknown	9.21	1900 ✓✓	J
6.	Aldol condensate	9.74	8400 ✓	JB
7.	Aldol condensate	9.90	600 ✓	JB
8. 4436753	3-Hexene-3,5-diene	12.48	600 ✓	JB
9.	Unknown	13.59	540 ✓	JB
10.	Unknown	13.77	2200 ✓	JB
11.	Unknown aliphatic hydrocarbo	15.21	(270) ✓	J
12.	Unknown hydrocarbon ✓	21.70	260 ✓	J
13. 54832836	1H-Indene, octahydro-2,2,4,4	22.33	540 —	J
14. 719222	2,5-Cyclohexadiene-1,4diene	23.72	450 ✓	J
15.	Unknown hydrocarbon	23.91	300 ✓	J →✓
16.	Unknown isomer	24.05	(360) ✓	J ✓
17.	Unknown	25.71	400 ✓	J ✓
18. 140669	Phenol, 4-(1,1,3,3-tetramethyl	26.06	1800 ✓	J ✕✓
19.	Unknown	27.39	1700 ✓	J ✓
20.	Unknown phenol	27.78	870 ✓	J ✕✓
21.	Unknown phenol	27.86	960 ✓	J ✕✓
22.	Unknown	27.94	630 ✓	J ✓
23.	Unknown	28.17	2100 ✓	J ✓
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FORM I SV-TIC

3/90

1) *-ne, 2-6-bis (1,1-dimethylethyl) -

406

2) H - yl bbyf() -

Total Volatile Organics
Total Volatile Hydrocarbons
Total Alkyl Phenols: 360mg
ORG

AR305617

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041310SS2RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362KLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 18 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----	2,4-Dinitrophenol	970	U
100-02-7-----	4-Nitrophenol	970	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	970	U
534-52-1-----	4,6-Dinitro-2-methylphenol	970	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	970	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	110	J
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	400	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	Bis(2-Ethylhexyl)phthalate	1100	
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	170	J
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

446

AR305618

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041310SS2RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362KLevel: (low/med) LOW Date Received: 12/07/91Moisture: 18 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
ug/L or ug/kg) UG/KG Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	970	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	970	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	970	U
83-32-9-----	Acenaphthene	400	U

AR305619

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

041313TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361HLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl)ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
111-91-1-----	bis(2-Chloroethoxy)methane	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	470	/
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	680	/
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	990	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	990	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	990	U
83-32-9-----	Acenaphthene	410	U

AR305620

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041313TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361HLevel: (low/med) LOW Date Received: 12/07/91Moisture: 19 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	990	U
100-02-7-----	4-Nitrophenol	990	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	110	J
100-01-6-----	4-Nitroaniline	990	U
534-52-1-----	4,6-Dinitro-2-methylphenol	990	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	990	U
85-01-8-----	Phenanthrene	160	J
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	150	J
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	380	J
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	410	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	Bis(2-Ethylhexyl)phthalate	2200	J
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

AR305621

**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

041313 TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298Sample wt/vol.: 30 (g/mL) G Lab File ID: >D361HLevel: (low/med) LOW Date Received: 12/07/91± Moisture: 19 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
Number TICs found: 21 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensate	9.76	2300	JAB
2.	Unknown aliphatic hydrocarbo	12.99	840	J ✓
3.	Unknown aliphatic hydrocarbo	13.08	880	J ✓
4.	Unknown	13.79	1100	JB
5.	Unknown aliphatic hydrocarbo	13.98	2200	J ✓
6.	Unknown aliphatic hydrocarbo	15.31	1200	J ✓
7.	Unknown aliphatic hydrocarbo	15.51	1200	J ✓
8.	Unknown aliphatic hydrocarbo	15.66	1100	J ✓
9.	Unknown aliphatic hydrocarbo	16.33	2200	J ✓
10.	Unknown	16.50	800	J ✓
11.	Unknown aliphatic hydrocarbo	16.66	740	J ✓
12.	Unknown aliphatic hydrocarbo	18.71	740	J ✓
13.	Unknown aliphatic hydrocarbo	19.89	790	J ✓
14.	629505 Tridecane	20.45	870 ✓	J
15.	Unknown aliphatic hydrocarbo	21.88	1100	J ✓
16.	629594 Tetradecane	22.33	1800 ✓	J
17.	569415 Naphthalene, 1,8-dimethyl-	23.19	1200 ✓	J ✓
18.	Unknown aliphatic hydrocarbo	23.38	2100	J ✓
19.	Unknown aliphatic hydrocarbo	25.73	1000	J ✓
20.	Unknown aliphatic hydrocarbo	26.47	1400	J ✓
21.	Unknown aliphatic hydrocarbo	27.35	3200	J ✓
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

45

3/90

Total unknown hydrocarbons = 2000
- Alkyl Naphthalen = 1000

AR305622

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

041313TSB5RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362HLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 19 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND ug/L or ug/kg) UG/KG Q

108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl)ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
111-91-1-----	bis(2-Chloroethoxy)methane	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	460	
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	610	
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	990	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	990	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	990	U
83-32-9-----	Acenaphthene	68	J

AR305623

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041313TSB5RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362HLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	990		U
100-02-7-----	4-Nitrophenol	990		U
132-64-9-----	Dibenzofuran	410		U
121-14-2-----	2,4-Dinitrotoluene	410		U
84-66-2-----	Diethylphthalate	410		U
7005-72-3-----	4-Chlorophenyl-phenylether	410		U
86-73-7-----	Fluorene	76		J
100-01-6-----	4-Nitroaniline	990		U
534-52-1-----	4,6-Dinitro-2-methylphenol	990		U
86-30-6-----	N-Nitrosodiphenylamine (1)	410		U
101-55-3-----	4-Bromophenyl-phenylether	410		U
118-74-1-----	Hexachlorobenzene	410		U
87-86-5-----	Pentachlorophenol	990		U
85-01-8-----	Phenanthrene	190		J
120-12-7-----	Anthracene	410		U
86-74-8-----	Carbazole	410		U
84-74-2-----	Di-n-butylphthalate	150		J
206-44-0-----	Fluoranthene	48		J
129-00-0-----	Pyrene	260		J
85-68-7-----	Butylbenzylphthalate	190		J
91-94-1-----	3,3'-Dichlorobenzidine	410		U
56-55-3-----	Benzo(a)anthracene	410		U
218-01-9-----	Chrysene	410		U
117-81-7-----	Bis(2-Ethylhexyl)phthalate	2200		
117-84-0-----	Di-n-octylphthalate	94		J
205-99-2-----	Benzo(b)fluoranthene	410		U
207-08-9-----	Benzo(k)fluoranthene	410		U
50-32-8-----	Benzo(a)pyrene	410		U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410		U
53-70-3-----	Dibenz(a,h)anthracene	410		U
191-24-2-----	Benzo(g,h,i)perylene	410		U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

499

AR305624

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041314TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361LLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

(ug/L or ug/kg) UG/KG

Q

CAS NO.	COMPOUND	400	U
108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	580	→
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	910	→
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	960	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	960	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	960	U
83-32-9-----	Acenaphthene	120	J →

AR305625

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041314TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361LLevel: (low/med) LOW Date Received: 12/07/91† Moisture: 17 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	960	U	
100-02-7-----	4-Nitrophenol	960	U	
132-64-9-----	Dibenzofuran	60	J	
121-14-2-----	2,4-Dinitrotoluene	400	U	
84-66-2-----	Diethylphthalate	400	U	
7005-72-3-----	4-Chlorophenyl-phenylether	400	U	
86-73-7-----	Fluorene	140	J	
100-01-6-----	4-Nitroaniline	960	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	960	U	
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U	
101-55-3-----	4-Bromophenyl-phenylether	400	U	
118-74-1-----	Hexachlorobenzene	400	U	
87-86-5-----	Pentachlorophenol	960	U	
85-01-8-----	Phenanthrene	220	J	
120-12-7-----	Anthracene	400	U	
86-74-8-----	Carbazole	400	U	
84-74-2-----	Di-n-butylphthalate	160	J	
206-44-0-----	Fluoranthene	400	U	
129-00-0-----	Pyrene	400	J	
85-68-7-----	Butylbenzylphthalate	400	U	
91-94-1-----	3,3'-Dichlorobenzidine	400	U	
56-55-3-----	Benzo(a)anthracene	400	U	
218-01-9-----	Chrysene	400	U	
117-81-7-----	Bis(2-Ethylhexyl)phthalate	2800		
117-84-0-----	Di-n-octylphthalate	400	U	
205-99-2-----	Benzo(b)fluoranthene	400	U	
207-08-9-----	Benzo(k)fluoranthene	400	U	
50-32-8-----	Benzo(a)pyrene	400	U	
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U	
53-70-3-----	Dibenz(a,h)anthracene	400	U	
191-24-2-----	Benzo(g,h,i)perylene	400	U	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

516

AR305626

**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

041314 TSB5

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299Sample wt/vol.: 30 (g/mL) G Lab File ID: >D361LLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
Number TICs found: 21 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Alcohol condensate	9.76	2200	JAB
2.	Unknown aliphatic hydrocarbo	11.38	1100✓	J
3.	Unknown aliphatic hydrocarbo	13.26	1400✓	J
4.	Unknown aliphatic hydrocarbo	14.00	2200✓	J
5.	Unknown aliphatic hydrocarbo	15.33	1200✓	J
6.	Unknown aliphatic hydrocarbo	15.51	1100✓	J
7.	Unknown aliphatic hydrocarbo	15.68	1000✓	J
8.	Unknown aliphatic hydrocarbo	16.35	2200✓	J
9.	Unknown aliphatic hydrocarbo	16.66	1500✓	J
10.	Unknown aliphatic hydrocarbo	16.91	1100✓	J
11.	Unknown aliphatic hydrocarbo	17.24	1000✓	J
12.	Unknown aliphatic hydrocarbo	18.71	1400✓	J
13.	Unknown aliphatic hydrocarbo	19.49	1500✓	J
14.	Unknown aliphatic hydrocarbo	19.90	1400✓	J
15.	629505 Tridecane	20.45	1400✓	J
16.	Unknown aliphatic hydrocarbo	21.89	1600✓	J
17.	629594 Tetradecane	22.34	1700✓	J
18.	569415 Naphthalene, 1,8-dimethyl-	23.20	1800✓	J
19.	Unknown aliphatic hydrocarbo	23.38	2600✓	J
20.	Unknown aliphatic hydrocarbo	26.47	1400✓	J
21.	Unknown aliphatic hydrocarbo	27.35	2800✓	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

517

3/90

Total Unknown No. = 2100 J

AR305627

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041314TSB5RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362LLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	59	J
91-20-3-----	Naphthalene	560	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	560	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	960	U
91-58-7-----	2-Choronaphthalene	400	U
88-74-4-----	2-Nitroaniline	960	U
131-11-3-----	Dimethylphthalate	48	J
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	960	U
83-32-9-----	Acenaphthene	84	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041314TSB5RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362LLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	960
100-02-7-----	4-Nitrophenol	960
132-64-9-----	Dibenzofuran	400
121-14-2-----	2,4-Dinitrotoluene	400
84-66-2-----	Diethylphthalate	400
7005-72-3-----	4-Chlorophenyl-phenylether	400
86-73-7-----	Fluorene	97
100-01-6-----	4-Nitroaniline	960
534-52-1-----	4,6-Dinitro-2-methylphenol	960
86-30-6-----	N-Nitrosodiphenylamine (1)	400
101-55-3-----	4-Bromophenyl-phenylether	400
118-74-1-----	Hexachlorobenzene	400
87-86-5-----	Pentachlorophenol	960
85-01-8-----	Phenanthrene	200
120-12-7-----	Anthracene	400
86-74-8-----	Carbazole	400
84-74-2-----	Di-n-butylphthalate	150
206-44-0-----	Fluoranthene	40
129-00-0-----	Pyrene	290
85-68-7-----	Butylbenzylphthalate	400
91-94-1-----	3,3'-Dichlorobenzidine	400
56-55-3-----	Benzo(a)anthracene	400
218-01-9-----	Chrysene	400
117-81-7-----	Bis(2-Ethylhexyl)phthalate	2900
117-84-0-----	Di-n-octylphthalate	50
205-99-2-----	Benzo(b)fluoranthene	400
207-08-9-----	Benzo(k)fluoranthene	400
50-32-8-----	Benzo(a)pyrene	400
193-39-5-----	Indeno(1,2,3-cd)pyrene	400
53-70-3-----	Dibenz(a,h)anthracene	400
191-24-2-----	Benzo(g,h,i)perylene	400

(1) - Cannot be separated from Diphenylamine

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041321TSB6

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAT Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361MLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 15 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) <u>UG/KG</u>	Q
108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl)ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5-----	4-Methylphenol	390	U
621-64-7-----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
111-91-1-----	bis(2-Chloroethoxy)methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	940	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	940	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U
99-09-2-----	3-Nitroaniline	940	U
83-32-9-----	Acenaphthene	390	U

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

041321TSB6

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361MLevel: (low/med) LOW Date Received: 12/07/91† Moisture: 15 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	940
100-02-7-----	4-Nitrophenol	940
132-64-9-----	Dibenzofuran	390
121-14-2-----	2,4-Dinitrotoluene	390
84-66-2-----	Diethylphthalate	390
7005-72-3-----	4-Chlorophenyl-phenylether	390
86-73-7-----	Fluorene	390
100-01-6-----	4-Nitroaniline	940
534-52-1-----	4,6-Dinitro-2-methylphenol	940
86-30-6-----	N-Nitrosodiphenylamine (1)	390
101-55-3-----	4-Bromophenyl-phenylether	390
118-74-1-----	Hexachlorobenzene	390
87-86-5-----	Pentachlorophenol	940
85-01-8-----	Phenanthrene	390
120-12-7-----	Anthracene	390
86-74-8-----	Carbazole	390
84-74-2-----	Di-n-butylphthalate	57
206-44-0-----	Fluoranthene	390
129-00-0-----	Pyrene	390
85-68-7-----	Butylbenzylphthalate	390
91-94-1-----	3,3'-Dichlorobenzidine	390
56-55-3-----	Benzo(a)anthracene	390
218-01-9-----	Chrysene	390
117-81-7-----	Bis(2-Ethylhexyl)phthalate	1000
117-84-0-----	Di-n-octylphthalate	390
205-99-2-----	Benzo(b)fluoranthene	390
207-08-9-----	Benzo(k)fluoranthene	390
50-32-8-----	Benzo(a)pyrene	390
193-39-5-----	Indeno(1,2,3-cd)pyrene	390
53-70-3-----	Dibenz(a,h)anthracene	390
191-24-2-----	Benzo(g,h,i)perylene	390

(1) - Cannot be separated from Diphenylamine

**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

041321 TSB6

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300Sample wt/vol.: 30 (g/mL) G Lab File ID: >E362MLevel: (low/med) LOW Date Received: 12/07/91Moisture: 15 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/29/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.09	380	J ✓
2.	Unknown	8.23	400	J ✓
3.	Aldol condensate	9.67	6500	JAB
4.	Unknown	12.40	660	J ✓
5.	Unknown	13.51	830	J ✓
6.	Unknown	13.69	1800	J ✓
7.	Unknown	14.78	560	J ✓
8.	Unknown aliphatic hydrocarbo	15.21	440	J ✓
9.	Unknown aliphatic hydrocarbo	15.40	330	J ✓
10.	Unknown	16.38	350	J ✓
11.	Unknown aliphatic hydrocarbo	17.61	290	J ✓
12.	Unknown aliphatic hydrocarbo	18.62	430	J ✓
13.	Unknown aliphatic hydrocarbo	19.40	350	J ✓
14.	Unknown aliphatic hydrocarbo	19.81	450	J ✓
15.	Unknown aliphatic hydrocarbo	21.80	470	J ✓
16.	Unknown aliphatic hydrocarbo	23.32	570	J ✓
17.	719222 2,5-Cyclohexadiene-1,4-dio	23.65	500 ✓	J ✓
18.	Unknown aliphatic hydrocarbo	27.30	790	J ✓
19.	Unknown phenol	27.59	460 ✓	J ✓
20.	Unknown phenol	27.71	320 ✓	J ✓
21.	Unknown aliphatic hydrocarbo	28.84	480	J ✓
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

581

3/90

Total Unknown: 5000 J
 Total Uncr. H4D = 4600 J
 Total Uncr. Total = 750 J

AR305632

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041321TSB6RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362MLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 15 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/29/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl)ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5-----	4-Methylphenol	390	U
621-64-7-----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
111-91-1-----	bis(2-Chloroethoxy)methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	940	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	940	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U
99-09-2-----	3-Nitroaniline	940	U
83-32-9-----	Acenaphthene	390	U

FORM 1 SV-1

3690
619

AR305633

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041321TSB6RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362MLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 15 decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/29/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	940	U
100-02-7-----	4-Nitrophenol	940	U
132-64-9-----	Dibenzofuran	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	940	U
534-52-1-----	4,6-Dinitro-2-methylphenol	940	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenyl-phenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	940	U
85-01-8-----	Phenanthrene	390	U
120-12-7-----	Anthracene	390	U
86-74-8-----	Carbazole	390	U
84-74-2-----	Di-n-butylphthalate	54	J
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	55	J
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	390	U
56-55-3-----	Benzo(a)anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	Bis(2-Ethylhexyl)phthalate	1300	
117-84-0-----	Di-n-octylphthalate	390	U
205-99-2-----	Benzo(b)fluoranthene	390	U
207-08-9-----	Benzo(k)fluoranthene	390	U
50-32-8-----	Benzo(a)pyrene	390	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	390	U
53-70-3-----	Dibenz(a,h)anthracene	390	U
191-24-2-----	Benzo(g,h,i)perylene	80	J

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

620

AR305634

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041327 EB1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 500 (g/ml) ML Lab File ID: >E361JLevel: (low/med) LOW Date Received: 12/07/91Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L or ug/kg) UG/L	Q
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

AR305635

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041327 EB1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 500 (g/ml) ML Lab File ID: >E361JLevel: (low/med) LOW Date Received: 12/07/91† Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
51-28-5-----	2,4-Dinitrophenol	25	U	
100-02-7-----	4-Nitrophenol	25	U	
132-64-9-----	Dibenzofuran	10	U	
121-14-2-----	2,4-Dinitrotoluene	10	U	
84-66-2-----	Diethylphthalate	10	U	
7005-72-3-----	4-Chlorophenyl-phenylether	10	U	
86-73-7-----	Fluorene	10	U	
100-01-6-----	4-Nitroaniline	25	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U	
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U	
101-55-3-----	4-Bromophenyl-phenylether	10	U	
118-74-1-----	Hexachlorobenzene	10	U	
87-86-5-----	Pentachlorophenol	25	U	
85-01-8-----	Phenanthrene	10	U	
120-12-7-----	Anthracene	10	U	
86-74-8-----	Carbazole	10	U	
84-74-2-----	Di-n-butylphthalate	10	U	
206-44-0-----	Fluoranthene	10	U	
129-00-0-----	Pyrene	10	U	
85-68-7-----	Butylbenzylphthalate	10	U	
91-94-1-----	3,3'-Dichlorobenzidine	10	U	
56-55-3-----	Benzo(a)anthracene	10	U	
218-01-9-----	Chrysene	10	U	
117-81-7-----	Bis(2-Ethylhexyl)phthalate	4	J	
117-84-0-----	Di-n-octylphthalate	10	U	
205-99-2-----	Benzo(b)fluoranthene	10	U	
207-08-9-----	Benzo(k)fluoranthene	10	U	
50-32-8-----	Benzo(a)pyrene	10	U	
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3-----	Dibenz(a,h)anthracene	10	U	
191-24-2-----	Benzo(g,h,i)perylene	10	U	

(1) - Cannot be separated from Diphenylamine

**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

041327 EBI

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 500 (g/mL) ML Lab File ID: >E361JLevel: (low/med) LOW Date Received: 12/07/91% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.26	14	JB
2.	Unknown	11.47	11	JB
3.	Unknown	13.77	88	JB
4.	Unknown	13.89	9	JB
5.	Unknown	14.61	12	JB
6. 289167	1,2,4-Trithiolane	16.70	16	J
7. 112345	Ethanol, 2-(2-butoxyethoxy)-	18.15	14	JB
8. 17233715	Hexathiepane	28.85	23	J
9.	Unknown aliphatic hydrocarbo	37.43	8	JB
10.	Unknown aliphatic hydrocarbo	39.43	14	JB
11.				
12.				
13.				
14.				
15.				
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29.				
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FORM I SV-TIC

630

3/90

AR305637

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

041328SS4

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302Sample wt/vol.: 30 (g/ml) G Lab File ID: >E002GLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 17 decanted: (Y/N) N Date Extracted: 12/30/91Concentration Extract Volume: 500 (uL) Date Analyzed: 01/02/92Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND ug/L or ug/kg) UG/KG Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	120	J
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	42	J
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	960	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	960	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	960	U
83-32-9-----	Acenaphthene	400	U

FORM 1 SV-1

3/90

649

AR305638

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041328SS4

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302Sample wt/vol.: 30 (g/ml) G Lab File ID: >E002GLevel: (low/med) LOW Date Received: 12/07/91% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/30/91Concentration Extract Volume: 500 (uL) Date Analyzed: 01/02/92Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

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

<u>51-28-5-----</u>	<u>2,4-Dinitrophenol</u>	<u>960</u>	<u>U</u>
<u>100-02-7-----</u>	<u>4-Nitrophenol</u>	<u>960</u>	<u>U</u>
<u>132-64-9-----</u>	<u>Dibenzofuran</u>	<u>400</u>	<u>U</u>
<u>121-14-2-----</u>	<u>2,4-Dinitrotoluene</u>	<u>400</u>	<u>U</u>
<u>84-66-2-----</u>	<u>Diethylphthalate</u>	<u>48</u>	<u>J</u>
<u>7005-72-3-----</u>	<u>4-Chlorophenyl-phenylether</u>	<u>400</u>	<u>U</u>
<u>86-73-7-----</u>	<u>Fluorene</u>	<u>400</u>	<u>U</u>
<u>100-01-6-----</u>	<u>4-Nitroaniline</u>	<u>960</u>	<u>U</u>
<u>534-52-1-----</u>	<u>4,6-Dinitro-2-methylphenol</u>	<u>960</u>	<u>U</u>
<u>86-30-6-----</u>	<u>N-Nitrosodiphenylamine (1)</u>	<u>400</u>	<u>U</u>
<u>101-55-3-----</u>	<u>4-Bromophenyl-phenylether</u>	<u>400</u>	<u>U</u>
<u>118-74-1-----</u>	<u>Hexachlorobenzene</u>	<u>400</u>	<u>U</u>
<u>87-86-5-----</u>	<u>Pentachlorophenol</u>	<u>960</u>	<u>U</u>
<u>85-01-8-----</u>	<u>Phenanthrene</u>	<u>60</u>	<u>J</u>
<u>120-12-7-----</u>	<u>Anthracene</u>	<u>400</u>	<u>U</u>
<u>86-74-8-----</u>	<u>Carbazole</u>	<u>400</u>	<u>U</u>
<u>84-74-2-----</u>	<u>Di-n-butylphthalate</u>	<u>63</u>	<u>J</u>
<u>206-44-0-----</u>	<u>Fluoranthene</u>	<u>55</u>	<u>J</u>
<u>129-00-0-----</u>	<u>Pyrene</u>	<u>430</u>	
<u>85-68-7-----</u>	<u>Butylbenzylphthalate</u>	<u>400</u>	<u>U</u>
<u>91-94-1-----</u>	<u>3,3'-Dichlorobenzidine</u>	<u>400</u>	<u>U</u>
<u>56-55-3-----</u>	<u>Benzo(a)anthracene</u>	<u>400</u>	<u>U</u>
<u>218-01-9-----</u>	<u>Chrysene</u>	<u>310</u>	<u>J</u>
<u>117-81-7-----</u>	<u>Bis(2-Ethylhexyl)phthalate</u>	<u>3100</u>	
<u>117-84-0-----</u>	<u>Di-n-octylphthalate</u>	<u>400</u>	<u>U</u>
<u>205-99-2-----</u>	<u>Benzo(b)fluoranthene</u>	<u>290</u>	<u>J</u>
<u>207-08-9-----</u>	<u>Benzo(k)fluoranthene</u>	<u>52</u>	<u>J</u>
<u>50-32-8-----</u>	<u>Benzo(a)pyrene</u>	<u>170</u>	<u>J</u>
<u>193-39-5-----</u>	<u>Indeno(1,2,3-cd)pyrene</u>	<u>400</u>	<u>U</u>
<u>53-70-3-----</u>	<u>Dibenz(a,h)anthracene</u>	<u>400</u>	<u>U</u>
<u>191-24-2-----</u>	<u>Benzo(g,h,i)perylene</u>	<u>440</u>	

(1) - Cannot be separated from Diphenylamine

AR305639

**SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

041328 SS4

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOILLab Sample ID: 34302Sample wt/vol.: 30 (g/mL) GLab File ID: >E002GLevel: (low/med) LOWDate Received: 12/07/91Moisture: 17 decanted: (Y/N) NDate Extracted: 12/30/91Concentration Extract Volume: 500 (uL)Date Analyzed: 01/02/92Injection Volume: 2.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
Number TICs found: 21 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.05	3600	J ✓
2.	Unknown	8.69	680	J ✓
3.	Unknown	8.93	3800	J ✓
4.	Aldol condensate	9.51	17000	JAB
5.	Unknown	13.32	490	J ✓
6. 14203191	1,3-Cyclopentanedione, 2-chl	13.49	2700	J ✓
7.	Unknown aliphatic hydrocarbo	20.38	530	J ✓
8.	Unknown aliphatic hydrocarbo	20.90	300	J ✓
9. 54832836	1H-Indene, octahydro-2,2,4,4	22.05	1100	J ✓
10.	Unknown	22.85	730	J ✓
11.	Unknown	23.61	470	J ✓
12. 140669	Phenol, 4-(1,1,3,3-tetrameth	25.80	10000	J ✓
13.	Unknown	27.12	6800	J ✓
14. 54932784	Phenol, 4-(2,2,3,3-tetrameth	27.28	1600	J ✓
15.	Unknown	27.42	3000	J ✓
16. 25154523	Phenol, nonyl-	27.51	4700	J ✓
17.	Unknown phenol	27.59	4100	J ✓
18.	Unknown phenol	27.73	5800	J ✓
19.	Unknown	27.90	8100	J ✓
20.	Unknown	28.06	1900	J ✓
21.	Unknown phenol	28.14	2100	J ✓
22.				
23.				
24.				
25.				
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30.				

FORM I SV-TIC

651

3/90

Temp V. chro: 29.03°C
Total all result = 28°C

AR305640

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041328SS4RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302RESample wt/vol.: 30 (g/ml) G Lab File ID: >E002HLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 17 decanted: (Y/N) N Date Extracted: 12/30/91Concentration Extract Volume: 500 (uL) Date Analyzed: 01/02/92Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	130	J
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	48	J
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	960	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	960	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	960	U
83-32-9-----	Acenaphthene	400	U

730

AR305641

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

041328SS4RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302RESample wt/vol.: 30 (g/ml) G Lab File ID: >E002HLevel: (low/med) LOW Date Received: 12/07/91* Moisture: 17 decanted: (Y/N) N Date Extracted: 12/30/91Concentration Extract Volume: 500 (uL) Date Analyzed: 01/02/92Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	960	U
100-02-7-----	4-Nitrophenol	960	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	55	J
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	960	U
534-52-1-----	4,6-Dinitro-2-methylphenol	960	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	960	U
85-01-8-----	Phenanthrene	93	J
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	69	J
206-44-0-----	Fluoranthene	53	J
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	400	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	340	J
117-81-7-----	Bis(2-Ethylhexyl)phthalate	3000	U
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	320	J
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	310	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	J
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	520	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

701

AR305642

PESTICIDE ORGANICS ANALYSIS DATA SHEET

041310 SS-2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34297Sample wt/vol.: 30 (g/mL) G Lab File ID: CLP1366.SEO% Moisture: 18 decanted: (Y/N) N Date Received: 12/07/91Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/13/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/91Injection Volume: 1.0 (uL) Dilution Factor: 8.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) NCONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
319-84-6-----	alpha-BHC	7.8	
319-85-7-----	beta-BHC	16.6	U
319-86-8-----	delta-BHC	16.6	U
58-89-9-----	gamma-BHC (Lindane)	16.6	U
76-44-8-----	Heptachlor	16.6	U
309-00-2-----	Aldrin	16.6	U
1024-57-3-----	Heptachlor epoxide	16.6	U
959-98-8-----	Endosulfan I	410	
60-57-1-----	Dieldrin	32.2	U
72-55-9-----	4, 4'-DDE	32.2	U
72-20-8-----	Endrin	32.2	U
33213-65-9-----	Endosulfan II	280	
72-54-8-----	4, 4'-DDD	32.2	U
1031-07-8-----	Endosulfan sulfate	32.2	U
50-29-3-----	4, 4'-DDT	32.2	U
72-43-5-----	Methoxychlor	166	U
53494-70-5-----	Endrin ketone	32.2	U
7421-36-3-----	Endrin aldehyde	32.2	U
5103-71-9-----	alpha-Chlordane	180	
5103-74-2-----	gamma-Chlordane	230	
8001-35-2-----	Toxaphene	1658	U
12674-11-2-----	Aroclor-1016	322	U
11104-28-2-----	Aroclor-1221	650	U
11141-16-5-----	Aroclor-1232	322	U
53469-21-9-----	Aroclor-1242	322	U
12672-29-6-----	Aroclor-1248	322	U
11097-69-1-----	Aroclor-1254	322	U
11096-82-5-----	Aroclor-1260	322	U

945

AR305643

PESTICIDE ORGANICS ANALYSIS DATA SHEET

041313 TSB-5 2'-4'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34298Sample wt/vol.: 30 (g/mL) G Lab File ID: CLP1366.SEO% Moisture: 19 decanted: (Y/N) N Date Received: 12/07/91Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/13/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/91Injection Volume: 1.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	26	
319-85-7-----	beta-BHC	8.4	U
319-86-8-----	delta-BHC	8.4	U
58-89-9-----	gamma-BHC (Lindane)	8.4	U
76-44-8-----	Heptachlor	8.4	U
309-00-2-----	Aldrin	8.4	U
1024-57-3-----	Heptachlor epoxide	8.4	U
959-98-8-----	Endosulfan I	130	
60-57-1-----	Dieldrin	16.3	U
72-55-9-----	4,4'-DDE	16.3	U
72-20-8-----	Endrin	16.3	U
33213-65-9-----	Endosulfan II	58	
72-54-8-----	4,4'-DDD	16.3	U
1031-07-8-----	Endosulfan sulfate	16.3	U
50-29-3-----	4,4'-DDT	16.3	U
72-43-5-----	Methoxychlor	17.0	U
53494-70-5-----	Endrin ketone	16.3	U
7421-36-3-----	Endrin aldehyde	16.3	U
5103-71-9-----	alpha-Chlordane	51	
5103-74-2-----	gamma-Chlordane	38	
8001-35-2-----	Toxaphene	840	U
12674-11-2-----	Aroclor-1016	163	U
11104-28-2-----	Aroclor-1221	331	U
11141-16-5-----	Aroclor-1232	163	U
53469-21-9-----	Aroclor-1242	163	U
12672-29-6-----	Aroclor-1248	163	U
11097-69-1-----	Aroclor-1254	163	U
11096-82-5-----	Aroclor-1260	163	U

954

AR305644

PESTICIDE ORGANICS ANALYSIS DATA SHEET

041314 TSB-5 4'-6'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34299Sample wt/vol.: 30 (g/mL) G Lab File ID: CLP1366.SEOMoisture: 17 decanted: (Y/N) N Date Received: 12/07/91Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/13/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/91Injection Volume: 1.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	8.2	U
319-85-7-----	beta-BHC	32	
319-86-8-----	delta-BHC	8.2	U
58-89-9-----	gamma-BHC (Lindane)	8.2	U
76-44-8-----	Heptachlor	8.2	U
309-00-2-----	Aldrin	8.2	U
1024-57-3-----	Heptachlor epoxide	8.2	U
959-98-8-----	Endosulfan I	490	
60-57-1-----	Dieldrin	15.9	U
72-55-9-----	4, 4'-DDE	15.9	U
72-20-8-----	Endrin	15.9	U
33213-65-9-----	Endosulfan II	210	
72-54-8-----	4, 4'-DDD	15.9	U
1031-07-8-----	Endosulfan sulfate	15.9	U
50-29-3-----	4, 4'-DDT	15.9	U
72-43-5-----	Methoxychlor	82	U
53494-70-5-----	Endrin ketone	15.9	U
7421-36-3-----	Endrin aldehyde	15.9	U
5103-71-9-----	alpha-Chlordane	140	
5103-74-2-----	gamma-Chlordane	85	
8001-35-2-----	Toxaphene	819	U
12674-11-2-----	Aroclor-1016	159	U
11104-28-2-----	Aroclor-1221	323	U
11141-16-5-----	Aroclor-1232	159	U
53469-21-9-----	Aroclor-1242	159	U
12672-29-6-----	Aroclor-1248	159	U
11097-69-1-----	Aroclor-1254	159	U
11096-82-5-----	Aroclor-1260	159	U

962

AR305645

PESTICIDE ORGANICS ANALYSIS DATA SHEET

041321 TSB-6 4'-6'

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34300Sample wt/vol.: 30 (g/mL) G Lab File ID: CLP1366.SEO% Moisture: 15 decanted: (Y/N) N Date Received: 12/07/91Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/13/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/91Injection Volume: 1.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	3.3	
319-85-7-----	beta-BHC	8.0	U
319-86-8-----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2-----	Aldrin	8.0	U
1024-57-3-----	Heptachlor epoxide	8.0	U
959-98-8-----	Endosulfan I	4.6	
60-57-1-----	Dieldrin	15.5	U
72-55-9-----	4,4'-DDE	15.5	U
72-20-8-----	Endrin	15.5	U
33213-65-9-----	Endosulfan II	3.7	
72-54-8-----	4,4'-DDD	15.5	U
1031-07-8-----	Endosulfan sulfate	15.5	U
50-29-3-----	4,4'-DDT	15.5	U
72-43-5-----	Methoxychlor	80	U
53494-70-5-----	Endrin ketone	15.5	U
7421-36-3-----	Endrin aldehyde	15.5	U
5103-71-9-----	alpha-Chlordane	56	
5103-74-2-----	gamma-Chlordane	70	
8001-35-2-----	Toxaphene	800	U
12674-11-2-----	Aroclor-1016	155.3	U
11104-28-2-----	Aroclor-1221	315	U
11141-16-5-----	Aroclor-1232	155.3	U
53469-21-9-----	Aroclor-1242	155.3	U
12672-29-6-----	Aroclor-1248	155.3	U
11097-69-1-----	Aroclor-1254	155.3	U
11096-82-5-----	Aroclor-1260	155.3	U
			ug/kg

FORM I PEST

3/90

971

AR305646

PESTICIDE ORGANICS ANALYSIS DATA SHEET

041327 EB1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 1000 (g/mL) ML Lab File ID: CLP1366.SEO† Moisture: _____ decanted: (Y/N) N Date Received: 12/09/91Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 12/12/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/91Injection Volume: 1.0 (uL) Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
319-84-6-----	alpha-BHC	0.05	U
319-85-7-----	beta-BHC	0.05	U
319-86-8-----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2-----	Aldrin	0.05	U
1024-57-3-----	Heptachlor epoxide	0.05	U
959-98-8-----	Endosulfan I	0.05	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-36-3-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.05	U
5103-74-2-----	gamma-Chlordane	0.05	U
8001-35-2-----	Toxaphene	5.00	U
12674-11-2-----	Aroclor-1016	1.00	U
11104-28-2-----	Aroclor-1221	2.00	U
11141-16-5-----	Aroclor-1232	1.00	U
53469-21-9-----	Aroclor-1242	1.00	U
12672-29-6-----	Aroclor-1248	1.00	U
11097-69-1-----	Aroclor-1254	1.00	U
11096-82-5-----	Aroclor-1260	1.00	U

978

AR305647

PESTICIDE ORGANICS ANALYSIS DATA SHEET

041328 SS-4

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34302Sample wt/vol.: 30 (g/mL) G Lab File ID: CLP1366.SEO% Moisture: 17 decanted: (Y/N) N Date Received: 12/07/91Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/13/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/91Injection Volume: 1.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	10	
319-85-7-----	beta-BHC	8.2	U
319-86-8-----	delta-BHC	8.2	U
58-89-9-----	gamma-BHC (Lindane)	8.2	U
76-44-8-----	Heptachlor	8.2	U
309-00-2-----	Aldrin	8.2	U
1024-57-3-----	Heptachlor epoxide	8.2	U
959-98-8-----	Endosulfan I	250	
60-57-1-----	Dieldrin	15.9	U
72-55-9-----	4,4'-DDE	15.9	U
72-20-8-----	Endrin	15.9	U
33213-65-9-----	Endosulfan II	180	
72-54-8-----	4,4'-DDD	15.9	U
1031-07-8-----	Endosulfan sulfate	150	
50-29-3-----	4,4'-DDT	15.9	U
72-43-5-----	Methoxychlor	81.9	U
53494-70-5-----	Endrin ketone	15.9	U
7421-36-3-----	Endrin aldehyde	15.9	U
5103-71-9-----	alpha-Chlordane	100	
5103-74-2-----	gamma-Chlordane	120	
8001-35-2-----	Toxaphene	819	U
12674-11-2-----	Aroclor-1016	159	U
11104-28-2-----	Aroclor-1221	323	U
11141-16-5-----	Aroclor-1232	159	U
53469-21-9-----	Aroclor-1242	159	U
12672-29-6-----	Aroclor-1248	159	U
11097-69-1-----	Aroclor-1254	159	U
11096-82-5-----	Aroclor-1260	159	U

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AR305648

INORGANIC ANALYSIS DATA SHEET

041310

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix (soil/water) : SOIL Lab Sample ID: 34297Level (low/med) : LOW Date Received: 12/07/91% Solids: 82.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10400			P
7440-36-0	Antimony	6	B	N	P
7440-38-2	Arsenic	22.1		NS	F
7440-39-3	Barium	83.9		N	P
7440-41-7	Beryllium	0.6	B		P
7440-43-9	Cadmium	1	U		P
7440-70-2	Calcium	445	B		P
7440-47-3	Chromium	23.0		N	P
7440-48-4	Cobalt	3.5	B		P
7440-50-8	Copper	52.4			P
7439-89-6	Iron	15700			P
7439-92-1	Lead	86.1			F
7439-95-4	Magnesium	1160	B	N*	P
7439-96-5	Manganese	61.5			P
7439-97-6	Mercury	1.2			AV
7440-02-0	Nickel	7.6	B		P
7440-09-7	Potassium	531	B		A
7782-49-2	Selenium	0.8	B		F
7440-22-4	Silver	2	U		P
7440-23-5	Sodium	80.0	B	N	P
7440-28-0	Thallium	2	U		F
7440-62-2	Vanadium	31.6			P
7440-66-6	Zinc	77.0		E	P
	Cyanide	2	U		C

Color Before: BROWN Clarity Before: _____ Texture: CLAYColor After: BROWN Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

AR305649

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INORGANIC ANALYSIS DATA SHEET

041313

Lab Name: GULF STATES ANALYTICAL Contract: _____
 Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____
 Matrix (soil/water) : SOIL Lab Sample ID: 34298
 Level (low/med) : LOW Date Received: 12/07/91
 % Solids: 80.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8550			P
7440-36-0	Antimony	12	U	N	P
7440-38-2	Arsenic	4.4		NS	F
7440-39-3	Barium	54.0		N	P
7440-41-7	Beryllium	0.3	B		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	370	B		P
7440-47-3	Chromium	14		N	P
7440-48-4	Cobalt	3.8	B		P
7440-50-8	Copper	6.7			P
7439-89-6	Iron	13900			P
7439-92-1	Lead	21.4		S	F
7439-95-4	Magnesium	742	B		P
7439-96-5	Manganese	149		N*	P
7439-97-6	Mercury	0.61			AV
7440-02-0	Nickel	6.5	B		P
7440-09-7	Potassium	610	B		A
7782-49-2	Selenium	0.7	B		F
7440-22-4	Silver	2	U		P
7440-23-5	Sodium	691	B		P
7440-28-0	Thallium	2	U		F
7440-62-2	Vanadium	34.6			P
7440-66-6	Zinc	24.1	E		P
	Cyanide	2	U		C

Color Before: BROWN

Clarity Before: _____

Texture: CLAYColor After: BROWN

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

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C19

INORGANIC ANALYSIS DATA SHEET

041314

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix (soil/water) : SOIL Lab Sample ID: 34299Level (low/med) : LOW Date Received: 12/07/91% Solids: 83.3Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9830			P
7440-36-0	Antimony	12	U	N	P
7440-38-2	Arsenic	4.5		NS	F
7440-39-3	Barium	40.8	B	N	P
7440-41-7	Beryllium	0.3	B		P
7440-43-9	Cadmium	1	U		P
7440-70-2	Calcium	579	B		P
7440-47-3	Chromium	14.2		N	P
7440-48-4	Cobalt	4.8	B		P
7440-50-8	Copper	8.7			P
7439-89-6	Iron	15200			P
7439-92-1	Lead	21.0			F
7439-95-4	Magnesium	755	B		P
7439-96-5	Manganese	204		N*	P
7439-97-6	Mercury	0.3			AV
7440-02-0	Nickel	5.0	B		P
7440-09-7	Potassium	684	B		A
7782-49-2	Selenium	0.5	B		F
7440-22-4	Silver	2	U	N	P
7440-23-5	Sodium	117	B		P
7440-28-0	Thallium	2	U		F
7440-62-2	Vanadium	33.6			P
7440-66-6	Zinc	30.9	E		P
	Cyanide	2	U		C

Color Before: BROWN Clarity Before: _____ Texture: CLAYColor After: BROWN Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

AR305651

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INORGANIC ANALYSIS DATA SHEET

041321

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix (soil/water) : SOIL Lab Sample ID: 34300Level (low/med) : LOW Date Received: 12/07/91* Solids: 84.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7780			P
7440-36-0	Antimony	12	U	N	P
7440-38-2	Arsenic	6.7		NS	F
7440-39-3	Barium	28.9	B	N	P
7440-41-7	Beryllium	0.1	B		P
7440-43-9	Cadmium	1	U		P
7440-70-2	Calcium	985	B		P
7440-47-3	Chromium	10.2		N	P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	6.4			P
7439-89-6	Iron	10200			P
7439-92-1	Lead	22.1			F
7439-95-4	Magnesium	825	B		P
7439-96-5	Manganese	113		N*	P
7439-97-6	Mercury	0.04	B		AV
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	465	B		A
7782-49-2	Selenium	1	U		F
7440-22-4	Silver	2	U	N	P
7440-23-5	Sodium	69.2	B		P
7440-28-0	Thallium	1.2	B		F
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	31.6	E		P
	Cyanide	2	U		C

Color Before: BROWN

Clarity Before: _____

Texture: CLAYColor After: BROWN

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

AR305652

C21

INORGANIC ANALYSIS DATA SHEET

041327

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix (soil/water) : WATER Lab Sample ID: 34301Level (low/med) : LOW Date Received: 12/07/91

t Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	76.6	B		P
7440-36-0	Antimony	60	U		P
7440-38-2	Arsenic	10	U		F
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5	U		P
7440-43-9	Cadmium	5	U		P
7440-70-2	Calcium	5000	U		P
7440-47-3	Chromium	10	U		P
7440-48-4	Cobalt	50	U		P
7440-50-8	Copper	25	U		P
7439-89-6	Iron	89.7	B		P
7439-92-1	Lead	3	U		F
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	15	U		P
7439-97-6	Mercury	0.2	U		AV
7440-02-0	Nickel	40	U		P
7440-09-7	Potassium	5000	U		A
7782-49-2	Selenium	5	U		F
7440-22-4	Silver	10	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10	U		F
7440-62-2	Vanadium	50	U		P
7440-66-6	Zinc	20	U		P
	Cyanide	10	U		C

Color Before: BROWN Clarity Before: CLEAR Texture: _____Color After: BROWN Clarity After: CLEAR Artifacts: _____

Comments:

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AR305653

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041328

INORGANIC ANALYSIS DATA SHEET

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix (soil/water) : SOIL Lab Sample ID: 34302Level (low/med) : LOW Date Received: 12/07/91% Solids: 83.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9300			P
7440-36-0	Antimony	8.3	B	N	P
7440-38-2	Arsenic	16.0		NS	F
7440-39-3	Barium	58.2		N	P
7440-41-7	Beryllium	0.3	B		P
7440-43-9	Cadmium	0.9	B		P
7440-70-2	Calcium	722	B		P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	3.3	B		P
7440-50-8	Copper	37.4			P
7439-89-6	Iron	13300			P
7439-92-1	Lead	50			F
7439-95-4	Magnesium	982	B		P
7439-96-5	Manganese	117		N*	P
7439-97-6	Mercury	0.5			AV
7440-02-0	Nickel	6.7	B		P
7440-09-7	Potassium	501	B		A
7782-49-2	Selenium	0.6	B		F
7440-22-4	Silver	2	U		P
7440-23-5	Sodium	52.4	B		P
7440-28-0	Thallium	2	U		F
7440-62-2	Vanadium	28.6			P
7440-66-6	Zinc	67.2	E		P
	Cyanide	2	U		C

Color Before: BROWN

Clarity Before: _____

Texture: CLAYColor After: BROWN

Clarity After: _____

Artifacts: _____

Comments:

FORM I - IN

AR305654

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**VOLATILE METHOD,
TRAVEL AND EQUIPMENT BLANKS**



AR305655

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKW01

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: VBLKW01Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347FLevel: (low/med) LOW Date Received: _____* Moisture: not dec. _____ Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	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

AR305656

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKW1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: VBLKW1Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347FLevel: (low/med) LOW Date Received: _____* Moisture: not dec. _____ Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKS01

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: VBLKS01 _____Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C346H _____Level: (low/med) LOW Date Received: _____* Moisture: not dec. Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (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	

AR305658

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKS01

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: VBLKS01Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C346HLevel: (low/med) LOW Date Received: _____* Moisture: not dec. Date Analyzed: 12/12/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR305659

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKS02

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: VBLKS02Sample wt/vol.: 5 (g/mL) G Lab File ID: >C347ELevel: (low/med) LOW Date Received: _____* Moisture: not dec. Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

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

AR305660

VBLKS03

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: VBLKS03Sample wt/vol.: 5 (g/mL) G Lab File ID: >C350DLevel: (low/med) LOW Date Received: _____Moisture: not dec. Date Analyzed: 12/16/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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
27-18-4-----	Tetrachloroethene	10	U
9-34-5-----	1,1,2,2-Tetrachloroethane	10	U
08-88-3-----	Toluene	10	U
08-90-7-----	Chlorobenzene	10	U
00-41-4-----	Ethylbenzene	10	U
00-42-5-----	Styrene	10	U
330-20-7-----	Xylene(total)	10	U

AR305661

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKS04

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: VBLKS04Sample wt/vol.: 5 (g/mL) G Lab File ID: >C352ZLevel: (low/med) LOW Date Received: _____† Moisture: not dec. _____ Date Analyzed: 12/18/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND	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-Dichloroproppane	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

AR305662

041329 TRIP BLANK

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34303Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347ILevel: (low/med) LOW Date Received: 12/07/91Moisture: not dec. Date Analyzed: 12/13/91GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	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

**VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

041329
TRIP BLANK

Lab Name: GULF STATES ANALYTICAL Contract: _____

Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 34303

Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347I

Level: (low/med) LOW Date Received: 12/07/91

* Moisture: not dec. Date Analyzed: 12/13/91

GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR305664

AR305665

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041327 EB1

• Name: GULF STATES ANALYTICAL Contract: _____
 Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 34301
 Sample wt/vol.: 5 (g/mL) ML Lab File ID: >C347H
 Level: (low/med) LOW Date Received: 12/07/91
 • Moisture: not dec. Date Analyzed: 12/13/91
 GC Column: CAP ID: 0.52 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR305666

AR305667

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKW1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34691Sample wt/vol.: 1000 (g/ml) ML Lab File ID: >E361GLevel: (low/med) LOW Date Received: 12/07/91* Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/L	Q
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKWI

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34691Sample wt/vol.: 1000 (g/ml) ML Lab File ID: >E361GLevel: (low/med) LOW Date Received: 12/07/91* Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	25
100-02-7-----	4-Nitrophenol	25
132-64-9-----	Dibenzofuran	10
121-14-2-----	2,4-Dinitrotoluene	10
84-66-2-----	Diethylphthalate	10
7005-72-3-----	4-Chlorophenyl-phenylether	10
86-73-7-----	Fluorene	10
100-01-6-----	4-Nitroaniline	25
534-52-1-----	4,6-Dinitro-2-methylphenol	25
86-30-6-----	N-Nitrosodiphenylamine (1)	10
101-55-3-----	4-Bromophenyl-phenylether	10
118-74-1-----	Hexachlorobenzene	10
87-86-5-----	Pentachlorophenol	25
85-01-8-----	Phenanthrene	10
120-12-7-----	Anthracene	10
86-74-8-----	Carbazole	10
84-74-2-----	Di-n-butylphthalate	10
206-44-0-----	Fluoranthene	10
129-00-0-----	Pyrene	10
85-68-7-----	Butylbenzylphthalate	10
91-94-1-----	3,3'-Dichlorobenzidine	10
56-55-3-----	Benzo(a)anthracene	10
218-01-9-----	Chrysene	10
117-81-7-----	Bis(2-Ethylhexyl)phthalate	2
117-84-0-----	Di-n-octylphthalate	10
205-99-2-----	Benzo(b)fluoranthene	10
207-08-9-----	Benzo(k)fluoranthene	10
50-32-8-----	Benzo(a)pyrene	10
193-39-5-----	Indeno(1,2,3-cd)pyrene	10
53-70-3-----	Dibenz(a,h)anthracene	10
191-24-2-----	Benzo(g,h,i)perylene	10

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKW1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34691Sample wt/vol.: 1000 (g/mL) ML Lab File ID: >E361GLevel: (low/med) LOW Date Received: 12/07/91% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____CONCENTRATION UNITS:
Number TICs found: 10 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.29	19	J
2.	Unknown	11.46	14	J
3.	Unknown	13.78	110	J
4.	Unknown	13.90	23	J
5.	Unknown	14.59	27	J
6. 112345	Ethanol, 2-(2-butoxyethoxy)-	18.13	38	J
7. 5466773	2-Propenoic acid, 3-(4-met	35.60	9	J
8. 123795	Hexanedioic acid, dioctyl es	36.19	19	J
9.	Unknown	37.43	8	J
10.	Unknown aliphatic hydrocarbo	39.46	21	J
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FORM I SV-TIC

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AR305670

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKS1

b Name: GULF STATES ANALYTICAL Contract: _____

Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 34791

Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361G

Level: (low/med) LOW Date Received: 12/07/91

* Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91

Concentration Extract Volume: 500 (uL) Date Analyzed: 12/27/91

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	330	U
111-44-4-----	bis(2-Chloroethyl)ether	330	U
95-57-8-----	2-Chlorophenol	330	U
541-73-1-----	1,3-Dichlorobenzene	330	U
106-46-7-----	1,4-Dichlorobenzene	330	U
95-50-1-----	1,2-Dichlorobenzene	330	U
95-48-7-----	2-Methylphenol	330	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5-----	4-Methylphenol	330	U
621-64-7-----	N-Nitroso-di-n-propylamine	330	U
67-72-1-----	Hexachloroethane	330	U
98-95-3-----	Nitrobenzene	330	U
78-59-1-----	Isophorone	330	U
88-75-5-----	2-Nitrophenol	330	U
105-67-9-----	2,4-Dimethylphenol	330	U
111-91-1-----	bis(2-Chloroethoxy)methane	330	U
120-83-2-----	2,4-Dichlorophenol	330	U
120-82-1-----	1,2,4-Trichlorobenzene	330	U
91-20-3-----	Naphthalene	330	U
106-47-8-----	4-Chloroaniline	330	U
87-68-3-----	Hexachlorobutadiene	330	U
59-50-7-----	4-Chloro-3-methylphenol	330	U
91-57-6-----	2-Methylnaphthalene	330	U
77-47-4-----	Hexachlorocyclopentadiene	330	U
88-06-2-----	2,4,6-Trichlorophenol	330	U
95-95-4-----	2,4,5-Trichlorophenol	800	U
91-58-7-----	2-Choronaphthalene	330	U
88-74-4-----	2-Nitroaniline	800	U
131-11-3-----	Dimethylphthalate	41	J
208-96-8-----	Acenaphthylene	330	U
606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	800	U
83-32-9-----	Acenaphthene	330	U

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKS1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAT Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34791Sample wt/vol.: 30 (g/ml) G Lab File ID: >D361GLevel: (low/med) LOW Date Received: 12/07/91% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	800	U
100-02-7-----	4-Nitrophenol	800	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	110	J
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	800	U
85-01-8-----	Phenanthenrene	38	J
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	330	U
56-55-3-----	Benzo(a)anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	Bis(2-Ethylhexyl)phthalate	330	U
117-84-0-----	Di-n-octylphthalate	330	U
205-99-2-----	Benzo(b)fluoranthene	330	U
207-08-9-----	Benzo(k)fluoranthene	330	U
50-32-8-----	Benzo(a)pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	330	U
53-70-3-----	Dibenz(a,h)anthracene	330	U
191-24-2-----	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

850

AR305672

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKS1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34791Sample wt/vol.: 30 (g/mL) G Lab File ID: >D361GLevel: (low/med) LOW Date Received: / /* Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____Number TICs found: 22CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.20	460	J
2.	Unknown	7.06	690	J
3.	Aldol condensate	7.16	450	JA
4.	Aldol condensate	8.36	220	JA
5.	Aldol condensate	8.46	750	JA
6.	Unknown olefin	8.58	140	J
7.	Unknown	8.87	560	J
8.	Unknown	8.99	170	J
9.	Unknown	9.23	140	J
10.	Aldol condensate	9.78	8600	JA
11.	Unknown aliphatic hydrocarbo	10.17	450	J
12.	Unknown aliphatic hydrocarbo	10.25	330	J
13.	Unknown aliphatic hydrocarbo	10.37	430	J
14.	Unknown aliphatic hydrocarbo	10.41	290	J
15. 198	Ethane, 1,1,2,2-tetrachloro-	11.98	140	J
16. 4436753	3-Hexene-2,5-dione	12.51	1500	J
17.	Unknown	12.73	650	J
18. 3240093	5-Hexen-2-one, 5-methyl	12.81	590	J
19.	Unknown	13.59	220	J
20.	Unknown	13.77	2100	J
21. 98862	Ethanone, 1-phenyl-	15.68	230	J
22. 120041	Dodecanamide, N,N-bis(2-hydr	24.98	2200	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKS1RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34791RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362GLevel: (low/med) LOW Date Received: 12/07/91% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/KG	Q
108-95-2-----	Phenol	330	U
111-44-4-----	bis(2-Chloroethyl)ether	330	U
95-57-8-----	2-Chlorophenol	330	U
541-73-1-----	1,3-Dichlorobenzene	330	U
106-46-7-----	1,4-Dichlorobenzene	330	U
95-50-1-----	1,2-Dichlorobenzene	330	U
95-48-7-----	2-Methylphenol	330	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5-----	4-Methylphenol	330	U
621-64-7-----	N-Nitroso-di-n-propylamine	330	U
67-72-1-----	Hexachloroethane	330	U
98-95-3-----	Nitrobenzene	330	U
78-59-1-----	Isophorone	330	U
88-75-5-----	2-Nitrophenol	330	U
105-67-9-----	2,4-Dimethylphenol	330	U
111-91-1-----	bis(2-Chloroethoxy)methane	330	U
120-83-2-----	2,4-Dichlorophenol	330	U
120-82-1-----	1,2,4-Trichlorobenzene	330	U
91-20-3-----	Naphthalene	330	U
106-47-8-----	4-Chloroaniline	330	U
87-68-3-----	Hexachlorobutadiene	330	U
59-50-7-----	4-Chloro-3-methylphenol	330	U
91-57-6-----	2-Methylnaphthalene	330	U
77-47-4-----	Hexachlorocyclopentadiene	330	U
88-06-2-----	2,4,6-Trichlorophenol	330	U
95-95-4-----	2,4,5-Trichlorophenol	800	U
91-58-7-----	2-Chloronaphthalene	330	U
88-74-4-----	2-Nitroaniline	800	U
131-11-3-----	Dimethylphthalate	41	J
208-96-8-----	Acenaphthylene	330	U
606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	800	U
83-32-9-----	Acenaphthene	330	U

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKS1RE

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 34791RESample wt/vol.: 30 (g/ml) G Lab File ID: >E362GLevel: (low/med) LOW Date Received: 12/07/91% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 500 (uL) Date Analyzed: 12/28/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	800	U
100-02-7-----	4-Nitrophenol	800	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	96	J
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	800	U
85-01-8-----	Phenanthrene	40	J
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	330	U
56-55-3-----	Benzo(a)anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	Bis(2-Ethylhexyl)phthalate	330	U
117-84-0-----	Di-n-octylphthalate	330	U
205-99-2-----	Benzo(b)fluoranthene	330	U
207-08-9-----	Benzo(k)fluoranthene	330	U
50-32-8-----	Benzo(a)pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	330	U
53-70-3-----	Dibenz(a,h)anthracene	330	U
191-24-2-----	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKS2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 36491Sample wt/vol.: 30 (g/ml) G Lab File ID: >D002GLevel: (low/med) LOW Date Received: _____* Moisture: not dec. dec. Date Extracted: 12/30/91Extraction (Sepf, Cont, Sonc) SONC Date Analyzed: 01/03/92GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/kg) UG/KG Q

108-95-2.....	Phenol	330	U
111-44-4.....	bis(2-Chloroethyl)ether	330	U
95-57-8.....	2-Chlorophenol	330	U
541-73-1.....	1,3-Dichlorobenzene	330	U
106-46-7.....	1,4-Dichlorobenzene	330	U
100-51-6.....	Benzyl alcohol	330	U
95-50-1.....	1,2-Dichlorobenzene	330	U
95-48-7.....	2-Methylphenol	330	U
108-60-1.....	bis(2-Chloroisopropyl)ether	330	U
106-44-5.....	4-Methylphenol	330	U
621-64-7.....	N-Nitroso-di-n-propylamine	330	U
67-72-1.....	Hexachloroethane	330	U
98-95-3.....	Nitrobenzene	330	U
78-59-1.....	Isophorone	330	U
88-75-5.....	2-Nitrophenol	330	U
105-67-9.....	2,4-Dimethylphenol	330	U
65-85-0.....	Benzoic acid	1600	U
111-91-1.....	bis(2-Chloroethoxy)methane	330	U
120-83-2.....	2,4-Dichlorophenol	330	U
120-82-1.....	1,2,4-Trichlorobenzene	330	U
91-20-3.....	Naphthalene	330	U
106-47-8.....	4-Chloroaniline	330	U
87-68-3.....	Hexachlorobutadiene	330	U
59-50-7.....	4-Chloro-3-methylphenol	330	U
91-57-6.....	2-Methylnaphthalene	330	U
77-47-4.....	Hexachlorocyclopentadiene	330	U
88-06-2.....	2,4,6-Trichlorophenol	330	U
95-95-4.....	2,4,5-Trichlorophenol	330	U
91-58-7.....	2-chloronaphthalene	330	U
88-74-4.....	2-Nitroaniline	330	U
131-11-3.....	Dimethylphthalate	330	U
208-96-8.....	Acenaphthylene	330	U
606-20-2.....	2,6-Dinitrotoluene	330	U

AR305676

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKS2

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAY Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: 36491Sample wt/vol.: 30 (g/ml) G Lab File ID: >D002GLevel: (low/med) LOW Date Received: _____* Moisture: not dec. dec. Date Extracted: 12/30/91Extraction (Sepf, Cont, Sonc) SONC Date Analyzed: 01/03/92GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	Q
99-09-2.....	3-Nitroaniline	1600 U
83-32-9.....	Acenaphthene	330 U
51-28-5.....	2,4-Dinitrophenol	1600 U
100-02-7.....	4-Nitrophenol	1600 U
132-64-9.....	Dibenzofuran	330 U
121-14-2.....	2,4-Dinitrotoluene	330 U
84-66-2....	Diethylphthalate	330 U
7005-72-3.....	4-Chlorophenyl-phenylether	330 U
86-73-7.....	Fluorene	330 U
100-01-6.....	4-Nitroaniline	1600 U
534-52-1.....	4,6-Dinitro-2-methylphenol	1600 U
86-30-6.....	N-Nitrosodiphenylamine (1)	330 U
101-55-3.....	4-Bromophenyl-phenylether	330 U
118-74-1.....	Hexachlorobenzene	330 U
87-86-5.....	Pentachlorophenol	1600 U
85-01-8.....	Phenanthrene	330 U
120-12-7.....	Anthracene	330 U
84-74-2.....	Di-n-butylphthalate	330 U
206-44-0.....	Fluoranthene	330 U
129-00-0.....	Pyrene	330 U
85-68-7.....	Butylbenzylphthalate	330 U
91-94-1.....	3,3'-Dichlorobenzidine	660 U
56-55-3.....	Benzo(a)anthracene	330 U
218-01-9.....	Chrysene	330 U
117-81-7.....	Bis(2-Ethylhexyl)phthalate	330 U
117-84-0.....	Di-n-octylphthalate	330 U
205-99-2.....	Benzo(b)fluoranthene	330 U
207-08-9.....	Benzo(k)fluoranthene	330 U
50-32-8.....	Benzo(a)pyrene	330 U
193-39-5.....	Indeno(1,2,3-cd)pyrene	330 U
53-70-3.....	Dibenz(a,h)anthracene	330 U
191-24-2.....	Benzo(g,h,i)perylene	330 U

(1) - Cannot be separated from Diphenylamine .

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

041327 EBI

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 500 (g/ml) ML Lab File ID: >E361JLevel: (low/med) LOW Date Received: 12/07/91† Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L or ug/kg) UG/L	Q
108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloraniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

AR305678

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

041327 EB1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 500 (g/ml) ML Lab File ID: >E361JLevel: (low/med) LOW Date Received: 12/07/91± Moisture: _____ decanted: (Y/N) N Date Extracted: 12/12/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
51-28-5-----	2,4-Dinitrophenol	25	U	
100-02-7-----	4-Nitrophenol	25	U	
132-64-9-----	Dibenzofuran	10	U	
121-14-2-----	2,4-Dinitrotoluene	10	U	
84-66-2-----	Diethylphthalate	10	U	
7005-72-3-----	4-Chlorophenyl-phenylether	10	U	
86-73-7-----	Fluorene	10	U	
100-01-6-----	4-Nitroaniline	25	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U	
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U	
101-55-3-----	4-Bromophenyl-phenylether	10	U	
118-74-1-----	Hexachlorobenzene	10	U	
87-86-5-----	Pentachlorophenol	25	U	
85-01-8-----	Phenanthrene	10	U	
120-12-7-----	Anthracene	10	U	
86-74-8-----	Carbazole	10	U	
84-74-2-----	Di-n-butylphthalate	10	U	
206-44-0-----	Fluoranthene	10	U	
129-00-0-----	Pyrene	10	U	
85-68-7-----	Butylbenzylphthalate	10	U	
91-94-1-----	3,3'-Dichlorobenzidine	10	U	
56-55-3-----	Benzo(a)anthracene	10	U	
218-01-9-----	Chrysene	10	U	
117-81-7-----	Bis(2-Ethylhexyl)phthalate	4	J	
117-84-0-----	Di-n-octylphthalate	10	U	
205-99-2-----	Benzo(b)fluoranthene	10	U	
207-08-9-----	Benzo(k)fluoranthene	10	U	
50-32-8-----	Benzo(a)pyrene	10	U	
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3-----	Dibenz(a,h)anthracene	10	U	
191-24-2-----	Benzo(g,h,i)perylene	10	U	

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

041327 EB1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: 34301Sample wt/vol.: 500 (g/mL)ML Lab File ID: >E361JLevel: (low/med) LOW Date Received: 12/07/91† Moisture: _____ decanted: (Y/N) N Date Extracted: 12/13/91Concentration Extract Volume: 1000 (uL) Date Analyzed: 12/27/91Injection Volume: 2.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.26	14	JB
2.	Unknown	11.47	11	JB
3.	Unknown	11.77	88	JB
4.	Unknown	13.89	9	JB
5.	Unknown	14.61	12	JB
6. 289167	1,2,4-Trithiolane	16.70	16	J
7. 112345	Ethanol, 2-(2-butoxyethoxy)-	18.15	14	JB
8. 17233715	Hexathiepane	28.85	23	J
9.	Unknown aliphatic hydrocarbo	37.43	8	JB
10.	Unknown aliphatic hydrocarbo	39.43	14	JB
11.				
12.				
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AR305680

AR305681

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLKS1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) SOIL Lab Sample ID: PBLK02Sample wt/vol.: 30 (g/mL) S Lab File ID: CLP1366.SEO% Moisture: _____ decanted: (Y/N) N Date Received: 12/09/91Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/13/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/91Injection Volume: 1.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	1.7	U
319-85-7-----	beta-BHC	1.7	U
319-86-8-----	delta-BHC	1.7	U
58-89-9-----	gamma-BHC (Lindane)	1.7	U
76-44-8-----	Heptachlor	1.7	U
309-00-2-----	Aldrin	1.7	U
1024-57-3-----	Heptachlor epoxide	1.7	U
959-98-8-----	Endosulfan I	1.7	U
60-57-1-----	Dieldrin	3.3	U
72-55-9-----	4,4'-DDE	3.3	U
72-20-8-----	Endrin	3.3	U
33213-65-9-----	Endosulfan II	3.3	U
72-54-8-----	4,4'-DDD	3.3	U
1031-07-8-----	Endosulfan sulfate	3.3	U
50-29-3-----	4,4'-DDT	3.3	U
72-43-5-----	Methoxychlor	17.0	U
53494-70-5-----	Endrin ketone	3.3	U
7421-36-3-----	Endrin aldehyde	3.3	U
5103-71-9-----	alpha-Chlordane	1.7	U
5103-74-2-----	gamma-Chlordane	1.7	U
8001-35-2-----	Toxaphene	170.0	U
12674-11-2-----	Aroclor-1016	33.0	U
11104-28-2-----	Aroclor-1221	67.0	U
11141-16-5-----	Aroclor-1232	33.0	U
53469-21-9-----	Aroclor-1242	33.0	U
12672-29-6-----	Aroclor-1248	33.0	U
11097-69-1-----	Aroclor-1254	33.0	U
11096-82-5-----	Aroclor-1260	33.0	U
			?

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLKW1

Lab Name: GULF STATES ANALYTICAL Contract: _____Lab Code: GSAI Case No.: 5859 SAS No.: _____ SDG No.: _____Matrix: (soil/water) WATER Lab Sample ID: PBLK01Sample wt/vol.: 1000 (g/mL) ML Lab File ID: CLP1366.SEO* Moisture: _____ decanted: (Y/N) N Date Received: _____Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 12/12/91Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/91Injection Volume: 1.0 (uL) Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6-----	alpha-BHC	0.05	U
319-85-7-----	beta-BHC	0.05	U
319-86-8-----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2-----	Aldrin	0.05	U
1024-57-3-----	Heptachlor epoxide	0.05	U
959-98-8-----	Endosulfan I	0.05	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-36-3-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.05	U
5103-74-2-----	gamma-Chlordane	0.05	U
8001-35-2-----	Toxaphene	5.00	U
12674-11-2-----	Aroclor-1016	1.00	U
11104-28-2-----	Aroclor-1221	2.00	U
11141-16-5-----	Aroclor-1232	1.00	U
53469-21-9-----	Aroclor-1242	1.00	U
12672-29-6-----	Aroclor-1248	1.00	U
11097-69-1-----	Aroclor-1254	1.00	U
11096-82-5-----	Aroclor-1260	1.00	U

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