PASSF 1.7v1
J. Scura
10/16/85

ecology and environment, inc.

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International Specialists in the Environmental Sciences

MEMORANDUM

DATE: October 16, 1985

TO: John Osborn, FIT RPO, EPA, Seattle

FROM: John Ryding, Chemist, E&E, Seattle
Andrew Hafferty, Senior Chemist, E&E, Seattle

THRU: D.A. Buecker, FIT RPM, E&E, Seattle

SUBJ: QA of Case 4768 (Organics)
Resource Recovery WA 0280

REF: TDD R10-8510-01

CC: Gerald Muth, DPO, EPA, Region X
Harold Takenaka, DPO, EPA, Region IX
Bill Ritthaler, E&E, Seattle

The Quality Assurance review of 17 samples with one duplicate, Case 4768, collected at Resource Recovery has been completed. One soil sample was analyzed at low level for HSL volatiles only by EAL Corporation of Richmond, California. Sixteen soil samples and one duplicate were analyzed at low levels for HSL semi-volatiles and pesticides only. The samples were numbered:

JA339 (VOA)	JA551	JA561
JA544	JA552	JA562
JA545	JA553	JA563
JA548	JA557	JA563 (dup)
JA549	JA558	JA565
JA550	JA560	JA566

Data Qualifications

The following comments refer to the laboratory performance in meeting the Quality Control specifications outlined in IFB WA84A-266.

1) Timeliness

The laboratory extracted and analyzed all samples withing QC time limits. However, the following samples were held in the field for more two days prior to shipment to the lab:

USEPA SF
1371157

recycled paper

d) Standards Summary

On the quantitation column

Instrument	Compound	% D	QC Limit
1	Endosulfan Sulfate	35%	15%

6) Blanks

Methylene chloride and bis(2-ethylhexyl)phthalate were found in the VOA and BNA blanks. The pesticide blank is not acceptable, the laboratory should take immediate action to eliminate an ongoing pesticide blank problem noted by the reviewers. Only one blank was run with two sets of samples run on different days.

7) Surrogates

Acceptable as reported; however, most of the surrogate recoveries could not be reproduced from the raw data.

8) Matrix Spike and Matrix Spike Duplicate

The following compounds exceeded QC limits for % recovery:

Compound	% Recovery	QC Limit
1,2,4-Trichlorobenzene (MSD)	34	38-107%
Pyrene (MS)	32	35-142%
Pyrene (MSD)	24	35-142%
Lindane (MS)	328	46-127%
Lindane (MSD)	364	46-127%
Heptachlor (MS)	24	35-130%
Heptachlor (MSD)	197	35-130%
Aldrin (MS)	373	34-132%
Aldrin (MSD)	392	34-132%
Endrin (MSD)	153	42-139%
4,4'-DDT (MS)	149	23-134%
4,4'-DDT (MSD)	163	23-134%

The % recoveries could not be reproduced from the raw data.

The following compounds exceed QC limits for RPD:

Compound	RPD	QC Limit
Acenaphthene	41	<19
1,4-Dichlorobenzene	28	<27
Phenol	68	<35
4-Nitrophenol	55	<50
Heptachlor	157	<31

9) Samples

The volatile fraction data of JA339 was flagged "J" due to the surrogate recoveries and contaminant concentrations being non-reproducible. The BNA data for samples JA550-JA560 was flagged "J" due to the non-reproducibility of the contaminant concentrations and surrogate recoveries. With a few exceptions all positive hits in the pesticide fraction were flagged "R" due to severe contamination in the blank. These exceptions are: JA557 4,4-DDD flagged "N," JA560 endosulfan sulfate and methoxychlor flagged "N," PCB data in JA560 acceptable (with "J"), and JA561 Aroclor 1242 flagged "N." All pesticide data has been flagged "J" due to poor linearity.

10) Tentatively Identified Compounds

4-Hydroxy-4-methyl-2-pentanone (diacetone alcohol) was detected and in some cases identified on the TIC data sheets in nearly every sample. This compound was detected in the blank but at significantly lower levels than in the samples. However, this compound is an aldol concensation product of an acetone reaction which has been noted is several other EAL data packages, e.g., E&E , QA memo dated October 3, 1985; Case 4680 from R. McGinnis and A. Hafferty to J. Osborn, RPO, USEPA, Region X. The data is not reliable and has been deleted from the data sheets in this report.

Data Use

The usefulness of the data is based on the criteria outlined in the "Laboratory Dta Validation Functional Guidelines for Evaluating Organic Analyses (R-582-5-5-01)."

Considering the above mentioned factors, the data is useful for LIMITED PURPOSES ONLY.

Pesticide/PCB data indicating positive results, except where specifically mentioned, is unusable.

Data Qualifiers

U - The material was analyzed for, but was not detected. The associated numerical value is estimated sample quantitation limit.

J - The associated numerical value is an estimated quantity because quality control criteria were not met.

R - Quality Control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.

Q - No analytical result.

N - Presumptive evidence of presence of material (tentative identification).

JR:dlk

Sample Number
SA-339

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202-73-1

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68-01-6960

Data Release Authorized By: Annett J Tyson

Date Sample Received: 8/6/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 8/8/85

Conc/Dil Factor: 1 pH 5

Percent Moisture: 7.82%

Percent Moisture (Decanted):

JMR 10/14/85

CAS Number		ug/l or (ug/Kg) (Circle One)	
74-87-3	Chloromethane	11u	~~10u~~
74-83-9	Bromomethane		~~10u~~
75-01-4	Vinyl Chloride		~~10u~~
75-00-3	Chloroethane		~~10u~~
75-09-2	Methylene Chloride		5u
67-64-1	Acetone	140	~~10u~~
75-15-0	Carbon Disulfide		5u
75-35-4	1, 1-Dichloroethene		5u
75-34-3	1, 1-Dichloroethane		5u
156-60-5	Trans-1, 2-Dichloroethene		5u
67-66-3	Chloroform		5u
107-06-2	1, 2-Dichloroethane		5u
78-93-3	2-Butanone	120	~~10u~~
71-55-6	1, 1, 1-Trichloroethane		5u
56-23-5	Carbon Tetrachloride		5u
108-05-4	Vinyl Acetate	11u	~~10u~~
75-27-4	Bromodichloromethane		5u

CAS Number		ug/l or (ug/Kg) (Circle One)	
79-34-5	1, 1, 2, 2-Tetrachloroethane		5u
78-87-5	1, 2-Dichloropropane		5u
10061-02-6	Trans-1, 3-Dichloropropene		5u
79-01-6	Trichloroethene		5u
124-48-1	Dibromochloromethane		5u
79-00-5	1, 1, 2-Trichloroethane		5u
71-43-2	Benzene		5u
10061-01-5	cis-1, 3-Dichloropropene		5u
110-75-8	2-Chloroethylvinylether	11u	~~10u~~
75-25-2	Bromoform		5u
591-78-6	2-Hexanone	220	~~10u~~
108-10-1	4-Methyl-2-Pentanone	11u	~~10u~~
127-18-4	Tetrachloroethene		5u
108-88-3	Toluene		5u
108-90-7	Chlorobenzene		5u
100-41-4	Ethylbenzene		5u
100-42-5	Styrene		5u
	Total Xylenes		5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-339

3202-73-1

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 541-05-9	hexamethylcyclotrisiloxane	VOA	825	200
2.	unknown		889	1.6 J
3.	"		366	6.3
4. 108-11-2	$C_6H_{14}O$ - 4-methyl-2-pentanol		593	2.8 J
5.	unknown		914	0.66
6 123-15-9	$C_6H_{12}O$ - 2-methylpentanal		719	0.47
7.	unknown		332	2.02
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10.				
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29.				
30				

Sample Number
JA-544

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73 - 2

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Emmett J Tyson

Date Sample Received: 8-6-83

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 3.44%

Percent Moisture (Decanted):

J R

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-544

3202-73-2

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR
10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	340U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxyl)Methane	340U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	340U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	340U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	340U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	340U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	340U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	340U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	340U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	680U ~~660u~~
56-55-3	Benzo(a)Anthracene	340U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

Laboratory Name EAL Corporation
Case Number CASE 4768 #2

Sample Number
JA-544

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

JMR 10/16/85

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	6.5	R	R
319-86-8	Delta BHC	2.	U	J
58-89-9	Gamma BHC	2.	U	
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	6.5	R	R
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	4.	U	
50-29-3	4,4-DDT	13.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 29.0100 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
5A-544

3202-73-2

JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. ~~123-42-2~~	~~$C_6H_{12}O_2$ 4-hydroxy-4-methyl 2-pentanone~~	~~ABN~~	~~330~~	~~4300 J~~ B
2.				
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30.				

Sample Number:
JA-545

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-3

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 5

Percent Moisture: 4.06%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-545

3202-73-3

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	340U ~~330u~~
108-95-2	Phenol	330u
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638 32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	340U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	340U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	340U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	340U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	340U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	340U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	340U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	330u
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	340U ~~330u~~
85-68-7	Butylbenzylphthalate	330u
91-94-1	3, 3'-Dichlorobenzidine	690U ~~660u~~
56-55-3	Benzo(a)Anthracene	340U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	330u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	330u
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

Name EAL Corporation
CASE 4768 #2

Sample Number
JA-545

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

JMR 10/16/85

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	
319-86-8	Delta BHC	2.	U	
58-89-9	Gamma BHC	2.	U	
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
72-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	4.9	R	J
33213-65-9	b Endosulfan	4.	U	
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	4.	U	
50-29-3	4,4-DDT	9.9	R	J
72-43-5	Methoxychlor	20.	U	
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 28.8500 Vt 10000.0 Vi 4.0

1

1

1-T

Number 4768

Sample Number
JA-545

3202-733

JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. ~~123-42-2~~	~~$C_6H_{12}O_2$ 4-hydroxy-4-methyl 2-pentanone~~	~~ABN~~	~~375~~	~~3600~~ JB
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Sample Number
JA-54B

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-4

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 580 %

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-548

3202-73-4

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	350U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	350U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	350U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	350U ~~330u~~
208-96-8	Acenaphthylene	350U ~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	350U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	350U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	350U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	350U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	350U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	700U ~~660u~~
56-55-3	Benzo(a)Anthracene	350U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

Story Name EAL Corporation
Number CASE 4768 #2

Sample Number
JA-548

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

JMR 10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	7.2	R	R J
319-86-8	Delta BHC	2.	U	J
58-89-9	Gamma BHC	2.	U	
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	5.0	R	R
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	4.	U	
50-29-3	4,4-DDT	9.8	R	
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 28.2800 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-548

3202-73-4

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. ~~123-42-2~~	~~$C_6H_{12}O_2$ 4-hydroxy-4-methyl-2-pentanone~~	~~ABN~~	~~319~~	~~3400~~ JB
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Sample Number
JA-549

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-5

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Emmett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 5

Percent Moisture: 6.95%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-549

3202-73-5

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	350U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	350U ~~330u~~
20-83-2	2, 4-Dichlorophenol	~~330u~~
20-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
1-20-3	Naphthalene	~~330u~~
06-47-8	4-Chloroaniline	~~330u~~
7-68-3	Hexachlorobutadiene	~~330u~~
9-50-7	4-Chloro-3-Methylphenol	~~330u~~
1-57-6	2-Methylnaphthalene	~~330u~~
7-47-4	Hexachlorocyclopentadiene	~~330u~~
8-06-2	2, 4, 6-Trichlorophenol	~~330u~~
5 95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
58-7	2-Chloronaphthalene	350U ~~330u~~
3-74-4	2-Nitroaniline	1700U ~~1600u~~
1-11-3	Dimethyl Phthalate	350U ~~330u~~
8 96-8	Acenaphthylene	~~330u~~
-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	350U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	350U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	350U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	350U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	350U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	700U ~~660u~~
56-55-3	Benzo(a)Anthracene	350U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

CASE 4768 #2

Sample Number
JA-549

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

JMR
10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	24.	R	R
319-86-8	Delta BHC	3.9	R	
58-89-9	Gamma BHC	2.	U	J
76-44-8	Heptachlor	9.0	R	
309-00-2	Aldrin	2.	U	J
1024-57-3	Heptachlor epox.	6.5	R	
959-98-8	a Endosulfan	2.	U	J
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	4.	U	
33213-65-9	b Endosulfan	4.	U	
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	43.	R	
50-29-3	4,4-DDT	11.	R	
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	600.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	70.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 27.9500 Vt 10000.0 Vi 4.0

Number 4768

JA-549

3202-73-5

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1. ~~123-42-2~~	~~$C_6H_{12}O_2$ 4-hydroxy-4-methyl-2-pentanone~~	~~ABN~~	~~318~~	~~3200~~	~~JB~~
2.	~~4-hydroxy-4-methyl-2 pentanone~~		~~322~~	~~3100~~	~~JB~~
3.					
4.					
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29.					
30.					

Sample Number
JA-550

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-6

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8.6.85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 7.89 %

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-550

3202-73-LR

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	360U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	360U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	330u
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	360U ~~330u~~
88-74-4	2-Nitroaniline	1700U 1600u
131-11-3	Dimethyl Phthalate	360U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	360U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	360U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	330u
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	360U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	360U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U 1600u
129-00-0	Pyrene	360U ~~330u~~
85-68-7	Butylbenzylphthalate	330u
91-94-1	3, 3'-Dichlorobenzidine	720U ~~660u~~
56-55-3	Benzo(a)Anthracene	360U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

Laboratory Name EAL Corporation
Case Number CASE 4768 #2

Sample Number
JA-550

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

JMR 10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	
319-86-8	Delta BHC	2.	U	
58-89-9	Gamma BHC	2.	U	
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	4.1	R	
959-98-8	a Endosulfan	2.	U	J
60-57-1	Dieldrin	4.	U	J
77-55-9	4,4-DDE	5.4	R	
72-20-8	Endrin	4.	U	J
33213-65-9	b Endosulfan	4.	U	
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	69.	R	R
50-29-3	4,4-DDT	15.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	8000.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	70.	U	
12672-29-6	Aroclor-1248	70.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs or Ws 27.6700 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
SA-550

3202-73-6

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

J.M.F. 10/14/85

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~Unknown~~	BNA	321	3300 JB
2.				
3.				
4.				
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OR-551

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-7

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 6.19%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-551

3202-73-7R

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	350U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	350U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	350U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	350U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	350U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	350U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	350U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	350U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	350U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	700U ~~660u~~
56-55-3	Benzo(a)Anthracene	350U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

tory Name EAL Corporation
Number CASE 4768 #2

Sample Number
JA-551

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

JMR
10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	↓
319-86-8	Delta BHC	3.8	R	
58-89-9	Gamma BHC	2.	U	J
76-44-8	Heptachlor	6.3	R	R
309-00-2	Aldrin	2.	U	J
1024-57-3	Heptachlor epox.	6.0	R	
959-98-8	a Endosulfan	2.	U	J
60-57-1	Dieldrin	4.	U	J
77-55-9	4,4-DDE	4.5	R	
72-20-8	Endrin	6.8	R	
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	4.	U	
50-29-3	4,4-DDT	4.	U	
72-43-5	Methoxychlor	20.	U	
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	↓

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 28.2100 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-551

3202-73-7

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
	~~unknown~~	~~BNA~~	~~326~~	~~2800~~	~~JB~~
1.	~~Unknown~~	↓	~~321~~	~~2400~~	~~JB~~
2.	unknown	↓	416	220	J
3.					
4.					
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30.					

Sample Number
JA-552

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-8

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 7.75%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-553

3202-73-8/R

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	360 U ~~330u~~ J
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700 U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	360 U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700 U ~~1600u~~
91-58-7	2-Chloronaphthalene	360 U ~~330u~~
88-74-4	2-Nitroaniline	1700 U ~~1600u~~
131-11-3	Dimethyl Phthalate	360 U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700 U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	360 U ~~330u~~ J
51-28-5	2, 4-Dinitrophenol	1700 U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	360 U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700 U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	360 U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700 U ~~1600u~~
85-01-8	Phenanthrene	360 U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700 U ~~1600u~~
129-00-0	Pyrene	360 U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	720 U ~~660u~~
56-55-3	Benzo(a)Anthracene	360 U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

ratory Name EAL Corporation
e Number CASE 4768 #2

Sample Number
JA-552

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

J MR 10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	J
319-86-8	Delta BHC	4.0	R	
58-89-9	Gamma BHC	2.	U	J
76-44-8	Heptachlor	2.	U	↓
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	6.3	R	
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	↓
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	52.	R	R
50-29-3	4,4-DDT	12.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	↓
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	600.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	70.	U	
12672-29-6	Aroclor-1248	70.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	↓

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 27.7200 Vt 10000.0 Vi 4.0

Laboratory Name [illegible]

Case Number 4768

JA-552

3202-73-8

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	unknown	BNA	322	2600 J B
1.				
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JA-553

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-9

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 5

Percent Moisture: 5.97%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-553

3202-73-9

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	350U	~~330u~~
108-95-2	Phenol		~~330u~~
62-53-3	Aniline		~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether		~~330u~~
95-57-8	2-Chlorophenol		~~330u~~
541-73-1	1, 3-Dichlorobenzene		~~330u~~
106-46-7	1, 4-Dichlorobenzene		~~330u~~
100-51-6	Benzyl Alcohol		~~330u~~
95-50-1	1, 2-Dichlorobenzene		~~330u~~
95-48-7	2-Methylphenol		~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether		~~330u~~
106-44-5	4-Methylphenol		~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine		~~330u~~
67-72-1	Hexachloroethane		~~330u~~
98-95-3	Nitrobenzene		~~330u~~
78-59-1	Isophorone		~~330u~~
88-75-5	2-Nitrophenol		~~330u~~
105-67-9	2, 4-Dimethylphenol		~~330u~~
65-85-0	Benzoic Acid	1700U	~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	350U	~~330u~~
120-83-2	2, 4-Dichlorophenol		~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene		~~330u~~
91-20-3	Naphthalene		~~330u~~
106-47-8	4-Chloroaniline		~~330u~~
87-68-3	Hexachlorobutadiene		~~330u~~
59-50-7	4-Chloro-3-Methylphenol		~~330u~~
91-57-6	2-Methylnaphthalene		~~330u~~
77-47-4	Hexachlorocyclopentadiene		~~330u~~
88-06-2	2, 4, 6-Trichlorophenol		~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U	~~1600u~~
91-58-7	2-Chloronaphthalene	350U	~~330u~~
88-74-4	2-Nitroaniline	1700U	~~1600u~~
131-11-3	Dimethyl Phthalate	350U	~~330u~~
208-96-8	Acenaphthylene		~~330u~~
99-09-2	3-Nitroaniline	1700U	~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	350U	~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U	~~1600u~~
100-02-7	4-Nitrophenol		~~1600u~~
132-64-9	Dibenzofuran	350U	~~330u~~
121-14-2	2, 4-Dinitrotoluene		~~330u~~
606-20-2	2, 6-Dinitrotoluene		~~330u~~
84-66-2	Diethylphthalate		~~330u~~
7005-72-3	4-Chlorophenyl-phenylether		~~330u~~
86-73-7	Fluorene		~~330u~~
100-01-6	4-Nitroaniline	1700U	~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol		~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	350U	~~330u~~
101-55-3	4-Bromophenyl-phenylether		~~330u~~
118-74-1	Hexachlorobenzene		~~330u~~
87-86-5	Pentachlorophenol	1700U	~~1600u~~
85-01-8	Phenanthrene	350U	~~330u~~
120-12-7	Anthracene		~~330u~~
84-74-2	Di-n-Butylphthalate		~~330u~~
206-44-0	Fluoranthene		~~330u~~
92-87-5	Benzidine	1700U	~~1600u~~
129-00-0	Pyrene	350U	~~330u~~
85-68-7	Butylbenzylphthalate		~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	700U	~~660u~~
56-55-3	Benzo(a)Anthracene	350U	~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate		~~330u~~
218-01-9	Chrysene		~~330u~~
117-84-0	Di-n-Octyl Phthalate		~~330u~~
205-99-2	Benzo(b)Fluoranthene		~~330u~~
207-08-9	Benzo(k)Fluoranthene		~~330u~~
50-32-8	Benzo(a)Pyrene		~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene		~~330u~~
53-70-3	Dibenz(a, h)Anthracene		~~330u~~
191-24-2	Benzo(g, h, i)Perylene		~~330u~~

(1)-Cannot be separated from diphenylamine

ory Name EAL Corporation
umber CASE 4768 #2

Sample Number
JA-553

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	↓
319-86-8	Delta BHC	4.5	R	
58-89-9	Gamma BHC	2.	U	J
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	↓
72-20-8	Endrin	5.7	R	
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	4.	U	↓
50-29-3	4,4-DDT	11.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	↓

JMR 10/16/85

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs ~~~~~~~~~~~~~~~~ or Ws 28.2900 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-553

3202-73-9

Organics Analysis Data Sheet
(Page 4)

JMR
10/14/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~Unknown~~	~~BNA~~	~~325~~	~~3000~~ JB
2.				
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Sample Number
JA-557

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-10

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Emmett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 5

Percent Moisture: 3.74 %

Percent Moisture (Decanted):

JR

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: EAL CORPORATION

Case Number: 4768

Sample Number: JA-557

3202-73-10

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	340U ~~330u~~ J
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	340U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	340U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	340U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	340U ~~330u~~ J
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	340U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	340U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	340U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	340U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	690U ~~660u~~
56-55-3	Benzo(a)Anthracene	340U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	170J ~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	340U ~~330u~~ J
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

CASE 4768 #2

Sample Number
JA-557

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

JMR 10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	100.	R	
319-86-8	Delta BHC	5.5	R	
58-89-9	Gamma BHC	2.	U	J
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	4.	U	
33213-65-9	b Endosulfan	4.	U	
72-54-8	4,4-DDD	5.1	J	N
7421-93-4	Endrin aldehyde	4.	U	J
1031-07-8	Endosulfan sulf.	36.	R	R
50-29-3	4,4-DDT	8.4	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	400.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

or Ws 28.9100 Vt 10000.0 Vi 4.0

Number 4768

Sample Number
SA-557

3202-73-10

JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	~~unknown~~	~~BNA~~	~~364~~	~~3000~~ JB
1.				
2.				
3.				
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JA-558

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73 - 11

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Annette J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 5

Percent Moisture: 5.21 %

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-558

3202-73-11

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	350U ~~330u~~	J
108-95-2	Phenol	~~330u~~	
62-53-3	Aniline	~~330u~~	
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~	
95-57-8	2-Chlorophenol	~~330u~~	
541-73-1	1, 3-Dichlorobenzene	~~330u~~	
106-46-7	1, 4-Dichlorobenzene	~~330u~~	
100-51-6	Benzyl Alcohol	~~330u~~	
95-50-1	1, 2-Dichlorobenzene	~~330u~~	
95-48-7	2-Methylphenol	~~330u~~	
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~	
106-44-5	4-Methylphenol	~~330u~~	
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~	
67-72-1	Hexachloroethane	~~330u~~	
98-95-3	Nitrobenzene	~~330u~~	
78-59-1	Isophorone	~~330u~~	
88-75-5	2-Nitrophenol	~~330u~~	
105-67-9	2, 4-Dimethylphenol	~~330u~~	
65-85-0	Benzoic Acid	1700U ~~1600u~~	
111-91-1	bis(-2-Chloroethoxy)Methane	350U ~~330u~~	
120-83-2	2, 4-Dichlorophenol	~~330u~~	
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~	
91-20-3	Naphthalene	~~330u~~	
106-47-8	4-Chloroaniline	~~330u~~	
87-68-3	Hexachlorobutadiene	~~330u~~	
59-50-7	4-Chloro-3-Methylphenol	~~330u~~	
91-57-6	2-Methylnaphthalene	~~330u~~	
77-47-4	Hexachlorocyclopentadiene	~~330u~~	
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~	
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~	
91-58-7	2-Chloronaphthalene	350U ~~330u~~	
88-74-4	2-Nitroaniline	1700U ~~1600u~~	
131-11-3	Dimethyl Phthalate	350U ~~330u~~	
208-96-8	Acenaphthylene	~~330u~~	
99-09-2	3-Nitroaniline	1700U ~~1600u~~	

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	350U 330u	J
51-28-5	2, 4-Dinitrophenol	1700U 1600u	
100-02-7	4-Nitrophenol	1600u	
132-64-9	Dibenzofuran	350U 330u	
121-14-2	2, 4-Dinitrotoluene	330u	
606-20-2	2, 6-Dinitrotoluene	330u	
84-66-2	Diethylphthalate	330u	
7005-72-3	4-Chlorophenyl-phenylether	330u	
86-73-7	Fluorene	330u	
100-01-6	4-Nitroaniline	1700U 1600u	
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u	
86-30-6	N-Nitrosodiphenylamine (1)	350U 330u	
101-55-3	4-Bromophenyl-phenylether	330u	
118-74-1	Hexachlorobenzene	330u	
87-86-5	Pentachlorophenol	1700U 1600u	
85-01-8	Phenanthrene	350U 330u	
120-12-7	Anthracene	330u	
84-74-2	Di-n-Butylphthalate	330u	
206-44-0	Fluoranthene	330u	
92-87-5	Benzidine	1700U 1600u	
129-00-0	Pyrene	350U 330u	
85-68-7	Butylbenzylphthalate	330u	
91-94-1	3, 3'-Dichlorobenzidine	700U 660u	
56-55-3	Benzo(a)Anthracene	350U 330u	
117-81-7	bis(2-Ethylhexyl)Phthalate	330u	
218-01-9	Chrysene	330u	
117-84-0	Di-n-Octyl Phthalate	330u	
205-99-2	Benzo(b)Fluoranthene	330u	
207-08-9	Benzo(k)Fluoranthene	330u	
50-32-8	Benzo(a)Pyrene	160J ~~330u~~	N
193-39-5	Indeno(1, 2, 3-cd)Pyrene	350U 330u	J
53-70-3	Dibenz(a, h)Anthracene	330u	
191-24-2	Benzo(g, h, i)Perylene	330u	

(1)-Cannot be separated from diphenylamine

Laboratory Name EAL Corporation
Case Number CASE 4768 #2

Sample Number
JA-558

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

JMR 10/16/85

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	
319-86-8	Delta BHC	2.	U	
58-89-9	Gamma BHC	2.	U	
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	2.	U	
959-98-8	a Endosulfan	2.	U	
60-57-1	Dieldrin	4.	U	
77-55-9	4,4-DDE	4.	U	
72-20-8	Endrin	5.0	R	
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	47.	R	R
50-29-3	4,4-DDT	12.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	40.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	70.	U	
53469-21-9	Aroclor-1242	60.	U	
12672-29-6	Aroclor-1248	60.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	80.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs ~~~~~~~~~~~~~~~~ or Ws 28.4700 Vt 10000.0 Vi 4.0

Laboratory Name _____

Case Number 41768

Sample Number
JA-558

3202-73-11
JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~unknown~~	~~BNA~~	~~3000~~	~~3100~~ ITB
2.				
3.				
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Sample Number
JA-560

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION
Case No: 4768
Lab Sample ID No: 3202- 73- 12
QC Report No:
Sample Matrix: SOIL/SEDIMENT
Contract No: 68 -01-6960
Data Release Authorized By: Annett J Tyson
Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: pH 5
Percent Moisture: 6.42%
Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-560

3202-73-12

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	350U ~~330u~~	J
108-95-2	Phenol	2700 ~~330u~~	
62-53-3	Aniline	350U ~~330u~~	
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~	
95-57-8	2-Chlorophenol	~~330u~~	
541-73-1	1, 3-Dichlorobenzene	~~330u~~	
106-46-7	1, 4-Dichlorobenzene	~~330u~~	
100-51-6	Benzyl Alcohol	~~330u~~	
95-50-1	1, 2-Dichlorobenzene	~~330u~~	
95-48-7	2-Methylphenol	~~330u~~	
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~	
106-44-5	4-Methylphenol	~~330u~~	
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~	
67-72-1	Hexachloroethane	~~330u~~	
98-95-3	Nitrobenzene	~~330u~~	
78-59-1	Isophorone	~~330u~~	
88-75-5	2-Nitrophenol	~~330u~~	
105-67-9	2, 4-Dimethylphenol	~~330u~~	
65-85-0	Benzoic Acid	1700U ~~1600u~~	
111-91-1	bis(-2-Chloroethoxyl)Methane	350U ~~330u~~	
120-83-2	2, 4-Dichlorophenol	~~330u~~	
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~	
91-20-3	Naphthalene	1700 ~~330u~~	
106-47-8	4-Chloroaniline	350U ~~330u~~	
87-68-3	Hexachlorobutadiene	~~330u~~	
59-50-7	4-Chloro-3-Methylphenol	~~330u~~	
91-57-6	2-Methylnaphthalene	1200 ~~330u~~	
77-47-4	Hexachlorocyclopentadiene	350U ~~330u~~	
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~	
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~	
91-58-7	2-Chloronaphthalene	350U ~~330u~~	
88-74-4	2-Nitroaniline	1700U ~~1600u~~	
131-11-3	Dimethyl Phthalate	350U ~~330u~~	
208-96-8	Acenaphthylene	~~330u~~	
99-09-2	3-Nitroaniline	1700U ~~1600u~~	

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	370 ~~330u~~	J
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~	
100-02-7	4-Nitrophenol	~~1600u~~	
132-64-9	Dibenzofuran	190 J ~~330u~~	
121-14-2	2, 4-Dinitrotoluene	350U ~~330u~~	J
606-20-2	2, 6-Dinitrotoluene	~~330u~~	
84-66-2	Diethylphthalate	~~330u~~	
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~	
86-73-7	Fluorene	270 J ~~330u~~	
100-01-6	4-Nitroaniline	1700U ~~1600u~~	J
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~	
86-30-6	N-Nitrosodiphenylamine (1)	350U ~~330u~~	
101-55-3	4-Bromophenyl-phenylether	~~330u~~	
118-74-1	Hexachlorobenzene	~~330u~~	
87-86-5	Pentachlorophenol	1700U ~~1600u~~	
85-01-8	Phenanthrene	1300 ~~330u~~	
120-12-7	Anthracene	200 J ~~330u~~	
84-74-2	Di-n-Butylphthalate	2000 ~~330u~~	J
206-44-0	Fluoranthene	960 ~~330u~~	
92-87-5	Benzidine	1700U ~~1600u~~	
129-00-0	Pyrene	1400 ~~330u~~	
85-68-7	Butylbenzylphthalate	430N ~~330u~~	
91-94-1	3, 3'-Dichlorobenzidine	700U ~~660u~~	
56-55-3	Benzo(a)Anthracene	320 J ~~330u~~	
117-81-7	bis(2-Ethylhexyl)Phthalate	1400 ~~330u~~	UJ
218-01-9	Chrysene	220 JN ~~330u~~	
117-84-0	Di-n-Octyl Phthalate	1900 ~~330u~~	J
205-99-2	Benzo(b)Fluoranthene	350U ~~330u~~	
207-08-9	Benzo(k)Fluoranthene	~~330u~~	
50-32-8	Benzo(a)Pyrene	~~330u~~	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~	
53-70-3	Dibenz(a, h)Anthracene	~~330u~~	
191-24-2	Benzo(g, h, i)Perylene	~~330u~~	

(1)-Cannot be separated from diphenylamine

Number CASE 4768 #2

Sample Number
JA-560

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/ 9/85
Dilution Factor	2.00

JMR
10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	4 ~~2.~~	U	J
319-85-7	Beta BHC	~~2.~~	U	
319-86-8	Delta BHC	~~2.~~	U	
58-89-9	Gamma BHC	~~2.~~	U	
76-44-8	Heptachlor	~~2.~~	U	
309-00-2	Aldrin	~~2.~~	U	
1024-57-3	Heptachlor epox.	~~2.~~	U	
959-98-8	a Endosulfan	~~2.~~	U	
60-57-1	Dieldrin	8 ~~4.~~	U	
72-55-9	4,4-DDE	~~4.~~	U	
72-20-8	Endrin	~~4.~~	U	
33213-65-9	b Endosulfan	~~4.~~	U	
72-54-8	4,4-DDD	~~4.~~	U	
7421-93-4	Endrin aldehyde	~~4.~~	U	
1031-07-8	Endosulfan sulf.	130.	N	J
50-29-3	4,4-DDT	8 ~~4.~~	U	J
72-43-5	Methoxychlor	75.	N	J
53494-70-5	Endrin ketone	8 ~~4.~~	U	J
57-74-9	Chlordane	40 ~~20.~~	U	
8001-35-2	Toxaphene	80 ~~40.~~	U	
12674-11-2	Aroclor-1016	40 ~~20.~~	U	
11104-28-2	Aroclor-1221	~~20.~~	U	
11141-16-5	Aroclor-1232	~~20.~~	U	
53469-21-9	Aroclor-1242	3100.		
12672-29-6	Aroclor-1248	40 ~~20.~~	U	
11097-69-1	Aroclor-1254	1400.		
11096-82-5	Aroclor-1260	80 ~~40.~~	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 28.1900 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-560

3202-73-12

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1.	unknown ~~hydrocarbons~~	BNA	1491	9400	J
2.	Unknown		413	4600	
3.	Unknown		315	4200	
4.	Unknown hydrocarbon (olefinic)		1424	7700	
~~5.~~	~~Unknown~~		~~310~~	~~3400~~	~~JB~~
6.	Unknown		1317	5900	J
7. 57-11-4	~~$C_{18}H_{36}O_2$ - octadecanoic acid~~ unknown		1436	5000	
8.	unknown		1391	4200	
9.	unknown hydrocarbon		636	2900	
10. 124-18-5	$C_{10}H_{22}$ - decane		524	1800	
11. 108-38-3	C_8H_{10} - ~~1,3~~-dimethyl benzene		343	1700	
12.	unknown hydrocarbon (olefinic)		1542	3000	
13. 95-63-6	C_9H_{12} - ~~1,2,4~~-trimethyl benzene		510	1300	
14.	unknown		1520	2400	
15.	Unknown		1505	2300	
16. 108-38-3	C_8H_{10} - ~~1,3~~-dimethyl benzene		376	1200	
17.	unknown ~~hydrocarbon~~		1453	1800	
18.	Unknown		1333	2000	
19. 611-14-3	C_9H_{12} - 1-ethyl-2-methylbenzene		471	860	
20. 126-73-8	$C_{12}H_{27}O_4P$ - phosphoric acid, tributyl ester		1106	1700	
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Sample Number
JA- 561

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-13

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bruce J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 5.71 %

Percent Moisture (Decanted):

JR

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number JA-561

3202-73-13

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/9/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	350U ~~330u~~	J
108-95-2	Phenol	1900 ~~330u~~	
62-53-3	Aniline	350U ~~330u~~	
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~	
95-57-8	2-Chlorophenol	~~330u~~	
541-73-1	1, 3-Dichlorobenzene	~~330u~~	
106-46-7	1, 4-Dichlorobenzene	~~330u~~	
100-51-6	Benzyl Alcohol	~~330u~~	
95-50-1	1, 2-Dichlorobenzene	~~330u~~	
95-48-7	2-Methylphenol	~~330u~~	
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~	
106-44-5	4-Methylphenol	~~330u~~	
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~	
67-72-1	Hexachloroethane	~~330u~~	
98-95-3	Nitrobenzene	~~330u~~	
78-59-1	Isophorone	~~330u~~	
88-75-5	2-Nitrophenol	~~330u~~	
105-67-9	2, 4-Dimethylphenol	~~330u~~	
65-85-0	Benzoic Acid	1700U ~~1600u~~	
111-91-1	bis(-2-Chloroethoxy)Methane	350U ~~330u~~	
120-83-2	2, 4-Dichlorophenol	~~330u~~	
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~	
91-20-3	Naphthalene	~~330u~~	
106-47-8	4-Chloroaniline	~~330u~~	
87-68-3	Hexachlorobutadiene	~~330u~~	
59-50-7	4-Chloro-3-Methylphenol	~~330u~~	
91-57-6	2-Methylnaphthalene	~~330u~~	
77-47-4	Hexachlorocyclopentadiene	~~330u~~	
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~	
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~	
91-58-7	2-Chloronaphthalene	350U ~~330u~~	
88-74-4	2-Nitroaniline	1700U ~~1600u~~	
131-11-3	Dimethyl Phthalate	350U ~~330u~~	
208-96-8	Acenaphthylene	~~330u~~	
99-09-2	3-Nitroaniline	1700U ~~1600u~~	

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	350U ~~330u~~	J
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~	
100-02-7	4-Nitrophenol	~~1600u~~	
132-64-9	Dibenzofuran	350U ~~330u~~	
121-14-2	2, 4-Dinitrotoluene	~~330u~~	
606-20-2	2, 6-Dinitrotoluene	~~330u~~	
84-66-2	Diethylphthalate	~~330u~~	
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~	
86-73-7	Fluorene	~~330u~~	
100-01-6	4-Nitroaniline	1700U ~~1600u~~	
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~	
86-30-6	N-Nitrosodiphenylamine (1)	350U ~~330u~~	
101-55-3	4-Bromophenyl-phenylether	~~330u~~	
118-74-1	Hexachlorobenzene	~~330u~~	
87-86-5	Pentachlorophenol	1700U ~~1600u~~	
85-01-8	Phenanthrene	350U ~~330u~~	
120-12-7	Anthracene	~~330u~~	
84-74-2	Di-n-Butylphthalate	~~330u~~	
206-44-0	Fluoranthene	~~330u~~	
92-87-5	Benzidine	1700U ~~1600u~~	
129-00-0	Pyrene	350U ~~330u~~	
85-68-7	Butylbenzylphthalate	~~330u~~	
91-94-1	3, 3'-Dichlorobenzidine	700U ~~660u~~	
56-55-3	Benzo(a)Anthracene	350U ~~330u~~	
117-81-7	bis(2-Ethylhexyl)Phthalate	390 ~~330u~~	UJ
218-01-9	Chrysene	350U ~~330u~~	J
117-84-0	Di-n-Octyl Phthalate	~~330u~~	
205-99-2	Benzo(b)Fluoranthene	~~330u~~	
207-08-9	Benzo(k)Fluoranthene	~~330u~~	
50-32-8	Benzo(a)Pyrene	150JN ~~330u~~	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	350U ~~330u~~	J
53-70-3	Dibenz(a, h)Anthracene	~~330u~~	
191-24-2	Benzo(g, h, i)Perylene	~~330u~~	

(1)-Cannot be separated from diphenylamine

Laboratory Name EAL Corporation

Case Number CASE 4768 #2

Sample Number
JA-561

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/10/85
Dilution Factor	2.00

JMR
10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	4 ~~2.~~	U	J
319-85-7	Beta BHC	~~2.~~	U	
319-86-8	Delta BHC	~~2.~~	U	
58-89-9	Gamma BHC	~~2.~~	U	
76-44-8	Heptachlor	~~2.~~	U	
309-00-2	Aldrin	~~2.~~	U	
1024-57-3	Heptachlor epox.	~~2.~~	U	
959-98-8	a Endosulfan	~~2.~~	U	
60-57-1	Dieldrin	5.0	R	
72-55-9	4,4-DDE	11.	R	
72-20-8	Endrin	8 ~~4.~~	UJ	
33213-65-9	b Endosulfan	18.	R	
72-54-8	4,4-DDD	8 ~~4.~~	UJ	
7421-93-4	Endrin aldehyde	20.	R	
1031-07-8	Endosulfan sulf.	79.	R	
50-29-3	4,4-DDT	32.		R
72-43-5	Methoxychlor	40 ~~20.~~	U	J
53494-70-5	Endrin ketone	8 ~~4.~~	U	
57-74-9	Chlordane	40 ~~20.~~	U	
8001-35-2	Toxaphene	80 ~~40.~~	U	
12674-11-2	Aroclor-1016	40 ~~20.~~	U	
11104-28-2	Aroclor-1221	~~20.~~	U	
11141-16-5	Aroclor-1232	~~20.~~	U	
53469-21-9	Aroclor-1242	140.	N	
12672-29-6	Aroclor-1248	40 ~~20.~~	U	
11097-69-1	Aroclor-1254	80 ~~40.~~	U	
11096-82-5	Aroclor-1260	80 ~~40.~~	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs _____ or Ws 28.3100 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-561

3202-73-13

JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~unknown~~	~~BNA~~	~~313~~	~~3400~~ JB
2.	~~Unknown~~		~~309~~	~~2500~~
3. 111-76-2	$C_6H_{14}O_2$ - 2-butoxyethanol		400	520
4.	unknown		1310	260 J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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27.				
28.				
29.				
30.				

Sample Number
JA-562

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-14

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8.6.85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 5

Percent Moisture: 3.90 %

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-562

3202-73-14

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/9/85

Conc/Dil Factor: 1

JMR
10/14/85

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	340 U ~~330u~~	J
108-95-2	Phenol	~~330u~~	
62-53-3	Aniline	~~330u~~	
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~	
95-57-8	2-Chlorophenol	~~330u~~	
541-73-1	1, 3-Dichlorobenzene	~~330u~~	
106-46-7	1, 4-Dichlorobenzene	~~330u~~	
100-51-6	Benzyl Alcohol	~~330u~~	
95-50-1	1, 2-Dichlorobenzene	~~330u~~	
95-48-7	2-Methylphenol	~~330u~~	
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~	
106-44-5	4-Methylphenol	~~330u~~	
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~	
67-72-1	Hexachloroethane	~~330u~~	
98-95-3	Nitrobenzene	~~330u~~	
78-59-1	Isophorone	~~330u~~	
88-75-5	2-Nitrophenol	~~330u~~	
105-67-9	2, 4-Dimethylphenol	~~330u~~	
65-85-0	Benzoic Acid	1700 U ~~1600u~~	
111-91-1	bis(-2-Chloroethoxy)Methane	340 U ~~330u~~	
120-83-2	2, 4-Dichlorophenol	~~330u~~	
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~	
91-20-3	Naphthalene	~~330u~~	
106-47-8	4-Chloroaniline	~~330u~~	
87-68-3	Hexachlorobutadiene	~~330u~~	
59-50-7	4-Chloro-3-Methylphenol	~~330u~~	
91-57-6	2-Methylnaphthalene	~~330u~~	
77-47-4	Hexachlorocyclopentadiene	~~330u~~	
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~	
95-95-4	2, 4, 5-Trichlorophenol	1700 U ~~1600u~~	
91-58-7	2-Chloronaphthalene	340 U ~~330u~~	
88-74-4	2-Nitroaniline	1700 U ~~1600u~~	
131-11-3	Dimethyl Phthalate	340 U ~~330u~~	
208-96-8	Acenaphthylene	~~330u~~	
99-09-2	3-Nitroaniline	1700 U ~~1600u~~	

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	340 U ~~330u~~	J
51-28-5	2, 4-Dinitrophenol	1700 U ~~1600u~~	
100-02-7	4-Nitrophenol	~~1600u~~	
132-64-9	Dibenzofuran	340 U ~~330u~~	
121-14-2	2, 4-Dinitrotoluene	~~330u~~	
606-20-2	2, 6-Dinitrotoluene	~~330u~~	
84-66-2	Diethylphthalate	~~330u~~	
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~	
86-73-7	Fluorene	~~330u~~	
100-01-6	4-Nitroaniline	1700 U ~~1600u~~	
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~	
86-30-6	N-Nitrosodiphenylamine (1)	340 U ~~330u~~	
101-55-3	4-Bromophenyl-phenylether	~~330u~~	
118-74-1	Hexachlorobenzene	~~330u~~	
87-86-5	Pentachlorophenol	1700 U ~~1600u~~	
85-01-8	Phenanthrene	340 U ~~330u~~	
120-12-7	Anthracene	~~330u~~	
84-74-2	Di-n-Butylphthalate	~~330u~~	
206-44-0	Fluoranthene	~~330u~~	
92-87-5	Benzidine	1700 U ~~1600u~~	
129-00-0	Pyrene	340 U ~~330u~~	
85-68-7	Butylbenzylphthalate	~~330u~~	
91-94-1	3, 3'-Dichlorobenzidine	690 U ~~660u~~	
56-55-3	Benzo(a)Anthracene	340 U ~~330u~~	
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~	
218-01-9	Chrysene	~~330u~~	
117-84-0	Di-n-Octyl Phthalate	~~330u~~	
205-99-2	Benzo(b)Fluoranthene	~~330u~~	
207-08-9	Benzo(k)Fluoranthene	~~330u~~	
50-32-8	Benzo(a)Pyrene	~~330u~~	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~	
53-70-3	Dibenz(a, h)Anthracene	~~330u~~	
191-24-2	Benzo(g, h, i)Perylene	~~330u~~	

(1)-Cannot be separated from diphenylamine

atory Name EAL Corporation
Number CASE 4768 #2

Sample Number
JA-562

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration LOW
Date Extracted 8/ 7/85
Date Analysed 9/10/85
Dilution Factor 1.00

JMR 10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	U	J
319-85-7	Beta BHC	2.	U	
319-86-8	Delta BHC	2.	U	
58-89-9	Gamma BHC	2.	U	
76-44-8	Heptachlor	2.	U	
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	8.8	R	
959-98-8	a Endosulfan	2.	U	J
60-57-1	Dieldrin	4.	U	J
77-55-9	4,4-DDE	4.6	R	
72-20-8	Endrin	6.2	R	
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	9.2	R	R
50-29-3	4,4-DDT	11.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	60.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	80.	U	
53469-21-9	Aroclor-1242	50.	U	
12672-29-6	Aroclor-1248	50.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	100.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

s or Ws 28.9400 Vt 10000.0 Vi 4.0

Laboratory Name [illegible]

Case Number 4768

Sample Number
JA-562

3202-73-14
JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~unknown~~	~~BNA~~	~~322~~	~~2800~~ JB
2.				
3.				
4.				
5.				
6.				
7.				
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25.				
26.				
27.				
28.				
29.				
30.				

JA-563

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-15

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 3.64%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case Number 4768

Sample Number
JA-563
3202-73-15

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/2/85

Date Analyzed: 8/12/85

Conc/Dil Factor: 1

JMR
10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	340u ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700u ~~1600u~~
111-91-1	bis(-2-Chloroethoxyl)Methane	340u ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700u ~~1600u~~
91-58-7	2-Chloronaphthalene	340u ~~330u~~
88-74-4	2-Nitroaniline	1700u ~~1600u~~
131-11-3	Dimethyl Phthalate	340u ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700u ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	340u ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700u ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	340u ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700u ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	340u ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700u ~~1600u~~
85-01-8	Phenanthrene	340u ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700u ~~1600u~~
129-00-0	Pyrene	340u ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	680u ~~660u~~
56-55-3	Benzo(a)Anthracene	340u ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

mber CASE 4768 #2

Sample Number
JA-563

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/10/85
Dilution Factor	1.00

JMR
10/16/85

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.6	R	
319-85-7	Beta BHC	2.	U	J
319-86-8	Delta BHC	2.2	R	
58-89-9	Gamma BHC	2.	U	J
76-44-8	Heptachlor	2.	U	↓
309-00-2	Aldrin	2.	U	
1024-57-3	Heptachlor epox.	10.	R	
959-98-8	a Endosulfan	2.	U	J
60-57-1	Dieldrin	4.	U	↓
77-55-9	4,4-DDE	5.3	R	
72-20-8	Endrin	7.5	R	
33213-65-9	b Endosulfan	4.	U	J
72-54-8	4,4-DDD	4.	U	↓
7421-93-4	Endrin aldehyde	4.	U	
1031-07-8	Endosulfan sulf.	30.	R	R
50-29-3	4,4-DDT	13.	R	R
72-43-5	Methoxychlor	20.	U	J
53494-70-5	Endrin ketone	4.	U	
57-74-9	Chlordane	60.	U	
8001-35-2	Toxaphene	500.	U	
12674-11-2	Aroclor-1016	40.	U	
11104-28-2	Aroclor-1221	70.	U	
11141-16-5	Aroclor-1232	80.	U	
53469-21-9	Aroclor-1242	50.	U	
12672-29-6	Aroclor-1248	50.	U	
11097-69-1	Aroclor-1254	100.	U	
11096-82-5	Aroclor-1260	100.	U	↓

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs ~~~~~~~~~~ or Ws 29.0600 Vt 10000.0 Vi 4.0

Number 4168

SA-563

3202-73-15

Organics Analysis Data Sheet
(Page 4)

J M D
10/14/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
				-	
1.	~~unknown~~	~~ABN~~	~~328~~	~~2800~~	~~JB~~
2.	~~"~~		~~323~~	~~1800~~	~~JB~~
3.					
4.					
5.					
6.					
7.					
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11.					
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28.					
29.					
30.					

Sample Number
JA-563
(Dup.)

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Lab Sample ID No: 3202-73-16

Sample Matrix: SOIL/SEDIMENT

Data Release Authorized By: Emmett J Tyson

Case No: 4768

QC Report No:

Contract No: 68-01-6960

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 3.64%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4769

Sample Number
5A-563

3202-73-16
(Dup)

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/12/85

Conc/Dil Factor: 1

JMR
10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	340U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	340U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	340U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	340U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	340U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	340U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	340U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	340U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	340U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	680U ~~660u~~
56-55-3	Benzo(a)Anthracene	340U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

ratory Name EAL Corporation
e Number CASE 4768 #2

Sample Number
JA-563 (Dup)

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

JMR 10/16/85

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/10/85
Dilution Factor	2.00

CAS Number		UG/KG		
319-84-6	Alpha BHC	4 ~~2.~~	U	J
319-85-7	Beta BHC	4 ~~2.~~	U	J
319-86-8	Delta BHC	2.1	R	
58-89-9	Gamma BHC	4 ~~2.~~	U	J
76-44-8	Heptachlor	~~2.~~	U	
309-00-2	Aldrin	~~2.~~	U	
1024-57-3	Heptachlor epox.	8.1	R	
959-98-8	a Endosulfan	4 ~~2.~~	U	J
60-57-1	Dieldrin	8 ~~4.~~	U	
77-55-9	4,4-DDE	~~4.~~	U	
72-20-8	Endrin	10.	R	
33213-65-9	b Endosulfan	8 ~~4.~~	U	J
72-54-8	4,4-DDD	~~4.~~	U	
7421-93-4	Endrin aldehyde	~~4.~~	U	
1031-07-8	Endosulfan sulf.	36.		R
50-29-3	4,4-DDT	5.4		R
72-43-5	Methoxychlor	40 ~~20.~~	U	J
53494-70-5	Endrin ketone	8 ~~4.~~	U	
57-74-9	Chlordane	90.	U	
8001-35-2	Toxaphene	800.	U	
12674-11-2	Aroclor-1016	70.	U	
11104-28-2	Aroclor-1221	100.	U	
11141-16-5	Aroclor-1232	100.	U	
53469-21-9	Aroclor-1242	70.	U	
12672-29-6	Aroclor-1248	100.	U	
11097-69-1	Aroclor-1254	200.	U	
11096-82-5	Aroclor-1260	200.	U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs ~~~~~~~~~~~~~~~~ or Ws 28.9800 ~~~~~~~~~~~~~~~~ Vt 10000.0 ~~~~~~~~~~~~~~~~ Vi 4.0 ~~~~~~~~~~~~~~~~

Case Number 4768

Sample Number
JA-563

3202-23-16
JMR
10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~Unknown~~	BNA	~~327~~	~~2900~~ JB
2. ~~123-42~~	~~$C_6H_{12}O_2$ - 4-hydroxy-4-methyl-2-~~	"	~~321~~	~~1800~~ JB
3.	~~pentanone~~			
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JA-965

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION

Case No: 4768

Lab Sample ID No: 3202- 73-17

QC Report No:

Sample Matrix: SOIL/SEDIMENT

Contract No: 68 -01-6960

Data Release Authorized By: Bennett J Tyson

Date Sample Received: 8-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 6

Percent Moisture: 7.39%

Percent Moisture (Decanted):

JR

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case Number 4769

Sample Number
JA-565

3202-73-17

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/12/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	360u ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	~~330u~~
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700u ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700u ~~1600u~~
91-58-7	2-Chloronaphthalene	360u ~~330u~~
88-74-4	2-Nitroaniline	1700u ~~1600u~~
131-11-3	Dimethyl Phthalate	360u ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700u ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	360u ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700u ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	360u ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700u ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	360u ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700u ~~1600u~~
85-01-8	Phenanthrene	360u ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700u ~~1600u~~
129-00-0	Pyrene	360u ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	710u ~~660u~~
56-55-3	Benzo(a)Anthracene	360u ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

Sample Number
JA-565

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

J MR 10/16/85

CAS Number		UG/KG	
319-84-6	Alpha BHC	2.5	R
319-85-7	Beta BHC	2. U	J
319-86-8	Delta BHC	2.2	R
58-89-9	Gamma BHC	2. U	J
76-44-8	Heptachlor	2. U	
309-00-2	Aldrin	2. U	
1024-57-3	Heptachlor epox.	12.	R
959-98-8	a Endosulfan	2. U	J
60-57-1	Dieldrin	4. U	
77-55-9	4,4-DDE	5.5	R
72-20-8	Endrin	7.5	R
33213-65-9	b Endosulfan	4. U	J
72-54-8	4,4-DDD	4. U	
7421-93-4	Endrin aldehyde	4. U	
1031-07-8	Endosulfan sulf.	4. U	
50-29-3	4,4-DDT	18.	R
72-43-5	Methoxychlor	20. U	J
53494-70-5	Endrin ketone	4. U	
57-74-9	Chlordane	70. U	
8001-35-2	Toxaphene	600. U	
12674-11-2	Aroclor-1016	60. U	
11104-28-2	Aroclor-1221	90. U	
11141-16-5	Aroclor-1232	100. U	
53469-21-9	Aroclor-1242	60. U	
12672-29-6	Aroclor-1248	60. U	
11097-69-1	Aroclor-1254	200. U	
11096-82-5	Aroclor-1260	100. U	

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

or Ws 27.8200 Vt 10000.0 Vi 4.0

JA-565

3202-73-M

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

JMR
10/14/85

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~Unknown~~	~~BNA~~	~~329~~	~~2900~~ ~~JB~~
2.	Unknown		1421	200 J
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Sample Number
JA-566

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: EAL CORPORATION
Case No: 4768
Lab Sample ID No: 3202- 73 - 18
QC Report No:
Sample Matrix: SOIL/SEDIMENT
Contract No: 68 -01-6960
Data Release Authorized By: Bennett J Tyson
Date Sample Received: 8-6-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: pH 6
Percent Moisture: 3.47%
Percent Moisture (Decanted):

JR

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
5A-566

3202-73-18

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/7/85

Date Analyzed: 8/12/85

Conc/Dil Factor: 1

JMR 10/14/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	340U ~~330u~~
108-95-2	Phenol	~~330u~~
62-53-3	Aniline	~~330u~~
111-44-4	bis(-2-Chloroethyl)Ether	~~330u~~
95-57-8	2-Chlorophenol	~~330u~~
541-73-1	1, 3-Dichlorobenzene	~~330u~~
106-46-7	1, 4-Dichlorobenzene	~~330u~~
100-51-6	Benzyl Alcohol	~~330u~~
95-50-1	1, 2-Dichlorobenzene	~~330u~~
95-48-7	2-Methylphenol	~~330u~~
39638-32-9	bis(2-chloroisopropyl)Ether	330u
106-44-5	4-Methylphenol	~~330u~~
621-64-7	N-Nitroso-Di-n-Propylamine	~~330u~~
67-72-1	Hexachloroethane	~~330u~~
98-95-3	Nitrobenzene	~~330u~~
78-59-1	Isophorone	~~330u~~
88-75-5	2-Nitrophenol	~~330u~~
105-67-9	2, 4-Dimethylphenol	~~330u~~
65-85-0	Benzoic Acid	1700U ~~1600u~~
111-91-1	bis(-2-Chloroethoxy)Methane	340U ~~330u~~
120-83-2	2, 4-Dichlorophenol	~~330u~~
120-82-1	1, 2, 4-Trichlorobenzene	~~330u~~
91-20-3	Naphthalene	~~330u~~
106-47-8	4-Chloroaniline	~~330u~~
87-68-3	Hexachlorobutadiene	~~330u~~
59-50-7	4-Chloro-3-Methylphenol	~~330u~~
91-57-6	2-Methylnaphthalene	~~330u~~
77-47-4	Hexachlorocyclopentadiene	~~330u~~
88-06-2	2, 4, 6-Trichlorophenol	~~330u~~
95-95-4	2, 4, 5-Trichlorophenol	1700U ~~1600u~~
91-58-7	2-Chloronaphthalene	340U ~~330u~~
88-74-4	2-Nitroaniline	1700U ~~1600u~~
131-11-3	Dimethyl Phthalate	340U ~~330u~~
208-96-8	Acenaphthylene	~~330u~~
99-09-2	3-Nitroaniline	1700U ~~1600u~~

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	340U ~~330u~~
51-28-5	2, 4-Dinitrophenol	1700U ~~1600u~~
100-02-7	4-Nitrophenol	~~1600u~~
132-64-9	Dibenzofuran	340U ~~330u~~
121-14-2	2, 4-Dinitrotoluene	~~330u~~
606-20-2	2, 6-Dinitrotoluene	~~330u~~
84-66-2	Diethylphthalate	~~330u~~
7005-72-3	4-Chlorophenyl-phenylether	~~330u~~
86-73-7	Fluorene	~~330u~~
100-01-6	4-Nitroaniline	1700U ~~1600u~~
534-52-1	4, 6-Dinitro-2-Methylphenol	~~1600u~~
86-30-6	N-Nitrosodiphenylamine (1)	340U ~~330u~~
101-55-3	4-Bromophenyl-phenylether	~~330u~~
118-74-1	Hexachlorobenzene	~~330u~~
87-86-5	Pentachlorophenol	1700U ~~1600u~~
85-01-8	Phenanthrene	340U ~~330u~~
120-12-7	Anthracene	~~330u~~
84-74-2	Di-n-Butylphthalate	~~330u~~
206-44-0	Fluoranthene	~~330u~~
92-87-5	Benzidine	1700U ~~1600u~~
129-00-0	Pyrene	340U ~~330u~~
85-68-7	Butylbenzylphthalate	~~330u~~
91-94-1	3, 3'-Dichlorobenzidine	680U ~~660u~~
56-55-3	Benzo(a)Anthracene	340U ~~330u~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	~~330u~~
117-84-0	Di-n-Octyl Phthalate	~~330u~~
205-99-2	Benzo(b)Fluoranthene	~~330u~~
207-08-9	Benzo(k)Fluoranthene	~~330u~~
50-32-8	Benzo(a)Pyrene	~~330u~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	~~330u~~
53-70-3	Dibenz(a, h)Anthracene	~~330u~~
191-24-2	Benzo(g, h, i)Perylene	~~330u~~

(1)-Cannot be separated from diphenylamine

Laboratory Name [illegible] Corporation

Case Number CASE 4768 #2

Sample Number
JA-566

ORGANICS ANALYSIS DATA SHEET
(Page 3)

Pesticide/PCBs

Concentration	LOW
Date Extracted	8/ 7/85
Date Analysed	9/13/85
Dilution Factor	1.00

CAS Number		UG/KG		
319-84-6	Alpha BHC	2.	u	J
319-85-7	Beta BHC	~~10.~~		2.0 w J
319-86-8	Delta BHC	2.	u	J
58-89-9	Gamma BHC	2.	u	
76-44-8	Heptachlor	2.	u	
309-00-2	Aldrin	2.	u	
1024-57-3	Heptachlor epox.	5.1	R	
959-98-8	a Endosulfan	2.	u	J
60-57-1	Dieldrin	4.	u	
77-55-9	4,4-DDE	4.	u	
72-20-8	Endrin	8.4	R	
33213-65-9	b Endosulfan	12.	R	R
72-54-8	4,4-DDD	4.	u	J
7421-93-4	Endrin aldehyde	4.	u	J
1031-07-8	Endosulfan sulf.	20.	R	R
50-29-3	4,4-DDT	11.	R	R
72-43-5	Methoxychlor	20.	u	J
53494-70-5	Endrin ketone	4.	u	
57-74-9	Chlordane	60.	u	
8001-35-2	Toxaphene	500.	u	
12674-11-2	Aroclor-1016	50.	u	
11104-28-2	Aroclor-1221	70.	u	
11141-16-5	Aroclor-1232	80.	u	
53469-21-9	Aroclor-1242	40.	u	
12672-29-6	Aroclor-1248	50.	u	
11097-69-1	Aroclor-1254	100.	u	
11096-82-5	Aroclor-1260	100.	u	

JMR 10/16/85

Vi =Volume of extract injected (ul)
Vs =Volume of water extracted (ml)
Ws =Weight of sample extracted (g)
Vt =Volume of total extract (ul)

Vs or Ws 29.0100 Vt 10000.0 Vi 4.0

Laboratory Name EAL CORPORATION

Case Number 4768

Sample Number
JA-566

3202-73-R

JMR 10/14/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	~~Unknown~~	BNA	326	~~2400~~ JB
2.	~~Unknown~~	"	319	~~1500~~ JB
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