57098

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401
(301) 266-9180

DATE : April 4, 1989

SUBJECT: Organic Data Validation for the Cryochem NPL Site (PRP Data)

FROM : Theresa A. Simpson
Region III Acting ESAT DPO (3ES23)

TO : Chris Pilla
Regional Project Manager (3HW12)

THRU : Patricia J. Krantz
Chief, QA Section (3ES23)

Attached is the organic data review for the Cryochem NPL Site (PRP Data) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me.

Attachment

TID File: 03890213 Task 1486

WESTON
MANAGERS DESIGNERS/CONSULTANTS
2568A RIVA ROAD
SUITE 300
ANNAPOLIS, MD 21401
PHONE: 301-266-9887

DATE: March 30, 1989

SUBJECT: Organic Data Validation for Case 10636
Site: Cryochem NPL

FROM: Sudabeh Rowshan-Kolar
Organic Data Reviewer

Albert T. Ellis
Senior Organic Data Reviewer

TO: Terry Simpson
Acting ESAT Deputy Project Officer

THROUGH: Charles E. Matkovich
ESAT Team Manager

Overview

Case 10636 consisted of a total of twenty-six (26) water samples. All twenty-six (26) samples were analyzed for pesticide/PCBs, only twenty-five (25) of those were analyzed for volatiles, and seven (7) of those were analyzed for semi-volatiles. All samples were analyzed following Contract Laboratory Program (CLP) protocol.

Summary

All samples were successfully analyzed for all target compounds with the exception of 2-butanone. All instrument and method sensitivities were according to Contract Laboratory Program protocol.

Minor Problems

- The response factors (RF) for 2-butanone were less than 0.05 in the initial and/or continuing calibrations. The positive results were qualified "B", due to the presence of this compound in the blank. (See Forms VI, VII and Table I in Appendix E).
- Several compounds failed precision criteria for the initial and continuing calibrations. Positive results are qualified "J" and and detection limits are qualified "UJ" for the affected samples. (See Table I of Appendix E).
- Since the sampling date was not provided, the receiving date was used for the technical holding time. The analyses of aromatic volatile compounds in several samples exceeded the technical holding time by one (1) to three (3) days. Positive results are qualified "L" and quantitative limits are qualified "UL" for these compounds in the affected samples.

Notes:

- The maximum concentrations of compounds found in the field, trip or method blanks are listed below. All samples with concentrations of common laboratory contaminants less than ten times (<10x) the blank level and uncommon laboratory contaminants less than five times (<5x) the blank level have been qualified "B" on the data summary forms. (See also Appendix F).

Compound	Concentration (ug/L)	
acetone*	16	
2-butanone*	15	
4-methyl-2-pentanone	3	J
chloroform*	3	J
styrene	1	J
total xylenes	1	J
bis(2-ethylhexyl)phthalate*	3	J

* = Common Laboratory Contaminants

- The laboratory did not submit any tentatively identified compounds (TICs) forms for the volatile and semi-volatile fractions.

All data for Case 10636 were reviewed in accordance with the Functional Guidelines for Evaluating Organic Analyses with Modifications for Use Within Region III. The text of this report addresses only those problems affecting usability.

Attachments

1) Appendix A - Glossary of Data Qualifiers
2) Appendix B - Data Summary. These include:
   (a) All positive results for target compounds with qualifier codes where applicable.
   (b) All unusable detection limits (qualified "R").
3) Appendix C - Results as Reported by the Laboratory for All Target Compounds
4) Appendix D - Report of Contractual Compliance
6) Appendix E - Support Documentation

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Appendix A

Glossary of Data Qualifiers

WESTON GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of compounds):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Compound may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification . Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Compound present. Reported value may not be accurate or precise.

K = Compound present. Reported value may be biased high. Actual value is expected to be lower.

L = Compound present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

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Appendix B

Data Summary Forms

A300838

DATA SUMMARY FORM: VOLATILES 1

Site Name: Cryochem NPL

WATER SAMPLES (ug/L)

Case #: 10636 Sampling Date: _____

To calculate sample quantitation limit: (CRQL * Dilution Factor)

CRQL	COMPOUND	10		20		28		35		37		47		50		52		54
	Sample No.	10		20		28		35		37		47		50		52		54
	Dilution Factor	1		1		1		1		1		1		1		1		1
	Location																	
10	Chloromethane																	
10	Bromomethane																	
10	*Vinyl Chloride																	
10	Chloroethane																	
5	*Methylene Chloride											15						
10	Acetone	15	B	20	B	13	B	15	B	22	B	7	B			70	B	2
5	Carbon Disulfide																	
5	*1,1-Dichloroethene																	
5	1,1-Dichloroethane																	
5	*Total-1,2-Dichloroethene																	
5	Chloroform			2	B											1	B	
5	*1,2-Dichloroethane																	
10	*2-Butanone	15	B	12	B	11	B	11	B	11	B	11	B	12	B	39	B	13
5	*1,1,1-Trichloroethane															40		
5	*Carbon Tetrachloride																	
10	Vinyl Acetate																	
5	Bromodichloromethane																	

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

AR300839

DATA SUMMARY FORM: V O L A T I L E S 2

WATER SAMPLES (ug/L)

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

To calculate sample quantitation limit: (CRQL * Dilution Factor)

CRQL	COMPOUND	10		20		28		35		37		47		50		52		54	
	Sample No.	10		20		28		35		37		47		50		52		54	
	Dilution Factor	1		1		1		1		1		1		1		1		1	
	Location																		
5	*1,2-Dichloropropane																		
5	Cis-1,3-Dichloropropene																		
5	Trichloroethene															12		77	
5	Dibromochloromethane																		
5	1,1,2-Trichloroethane																		
5	*Benzene		UL		UL		UL		UL		UL		UL		UL	2	L		UL
5	Trans-1,3-Dichloropropene																		
5	Bromoform		UJ																UJ
10	4-Methyl-2-pentanone																		
10	2-Hexanone																		
5	*Tetrachloroethene																		
5	1,1,2,2-Tetrachloroethane				UJ		UJ		UJ		UJ				UJ		UJ		
5	*Toluene		UL		UL		UL		UL		UL		UL		UL		UL		UL
5	*Chlorobenzene		↓		↓		↓		↓		↓		↓		↓		↓		↓
5	*Ethylbenzene		↓		↓		↓		↓		↓		↓		↓		↓		↓
5	*Styrene		↓		↓		↓		↓		↓		↓		↓		↓		↓
5	*Total Xylenes		↓		↓		↓		↓		↓		↓		↓		↓		↓

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

WATER SAMPLES (ug/L)

To calculate sample quantitation limits (CRQL * Dilution Factor)

	Sample No.	10	20	28	35	37	47	50	52	54
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location									
CRQL	COMPOUND									
0.05	alpha-BHC									
0.05	beta-BHC									
0.05	delta-BHC									
0.05	*Gamma-BHC (Lindane)									
0.05	*Heptachlor									
0.05	Aldrin									
0.05	Heptachlor Epoxide									
0.05	Endosulfan I									
0.10	Dieldrin									
0.10	4,4'-DDE									
0.10	*Endrin									
0.10	Endosulfan II									
0.10	4,4'-DDD									
0.10	Endosulfan Sulfate									
0.10	4,4'-DDT									
0.5	*Methoxychlor									
0.10	Endrin ketone									
0.5	*Alpha-Chlordane									
0.5	*Gamma-Chlordane									
1.0	*Toxaphene									
0.5	*Aroclor-1016									
0.5	*Aroclor-1221									
0.5	*Aroclor-1232									
0.5	*Aroclor-1242									
0.5	*Aroclor-1248									
1.0	*Aroclor-1254									
1.0	*Aroclor-1260									

CRQL = Contract Required Quantitation Limit * [illegible]on Level Exists SEE NARRATIVE FOR CO[illegible] DEFINITIONS

A300841

DATA SUMMARY FORM: VOLATILES 1

Site Name: Cryochem NPL

WATER SAMPLES (ug/L)

Case #: 10636 Sampling Date: _____

To calculate sample quantitation limit: (CRQL * Dilution Factor)

CRQL	COMPOUND	56		65		78		79-1		80		88		89		103		112	
	Sample No.	56		65		78		79-1		80		88		89		103		112	
	Dilution Factor	1		1		1		1		1		1		1		1		1	
	Location																		
10	Chloromethane		UJ						UJ		UJ				UJ				
10	Bromomethane																		
10	*Vinyl Chloride																		
10	Chloroethane																		
5	*Methylene Chloride																		
10	Acetone	11	B	14	B	16	B	11	B	21	B	11	B					9	B
5	Carbon Disulfide																		
5	*1,1-Dichloroethene							8								3	J		
5	1,1-Dichloroethane							12								5			
5	*Total-1,2-Dichloroethene																		
5	Chloroform																		
5	*1,2-Dichloroethane																		
10	*2-Butanone	14	B	14	B	13	B	17	B	16	B	13	B	13	B	13	B	16	
5	*1,1,1-Trichloroethane							140								15			
5	*Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane																		

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

AR300842

DATA SUMMARY FORM: VOLATILES 2

Site Name: Cryochem NPL

WATER SAMPLES (ug/L)

Case #: 10636 Sampling Date: _____

To calculate sample quantitation limit: (CRQL * Dilution Factor)

CRQL	COMPOUND	56		65		78		79-1		80		88		89		103		112	
	Dilution Factor	1		1		1		1		1		1		1		1		1	
	Location																		
5	*1,2-Dichloropropane																		
5	Cis-1,3-Dichloropropene																		
5	Trichloroethene	28						2	J										
5	Dibromochloromethane																		
5	1,1,2-Trichloroethane							1	J										
5	*Benzene				UL	2	L						UL				UL		
5	Trans-1,3-Dichloropropene																		
5	Bromoform				UJ								UJ						
10	4-Methyl-2-pentanone							4	B	3	B								
10	2-Hexanone																		
5	*Tetrachloroethene																		
5	1,1,2,2-Tetrachloroethane						UJ	1	J								UJ		
5	*Toluene				UL		UL						UL				UL		
5	*Chlorobenzene				↓		↓	2	J				↓				↓		
5	*Ethylbenzene							1	J										
5	*Styrene							1	J									1	J
5	*Total Xylenes				↓		↓	1	J				↓				↓	1	J

CRQL = Contract Required Quantitation Limit

* Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: VOLATILES

1

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

WATER SAMPLES (ug/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor)

AR300843

CRQL	COMPOUND	120		123		124		126		128		133		Trip blank		Cryochem blank		
	Dilution Factor	1		1		1		1		1		1		1		1		
	Location																	
10	Chloromethane				UJ								UJ					
10	Bromomethane																	
10	*Vinyl Chloride																	
10	Chloroethane																	
5	*Methylene Chloride									68								
10	Acetone	28	B			11	B		UJ	25	B	17	B			2	B	
5	Carbon Disulfide																	
5	*1,1-Dichloroethene																	
5	1,1-Dichloroethane																	
5	*Total-1,2-Dichloroethene																	
5	Chloroform													3	B	1	B	
5	*1,2-Dichloroethane																	
10	*2-Butanone	22	B	16	B	12	B	13	B	13	B	15	B	15	B	15	B	
5	*1,1,1-Trichloroethane																	
5	*Carbon Tetrachloride																	
10	Vinyl Acetate																	
5	Bromodichloromethane																	

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

AR300844

DATA SUMMARY FORM: VOLATILES 2

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	120		123		124		126		128		133		Trip blank		Cryochem Pl			
	Dilution Factor	1		1		1		1		1		1		1		1			
	Location																		
CRQL	COMPOUND																		
5	*1,2-Dichloropropane																		
5	Cis-1,3-Dichloropropene																		
5	Trichloroethene																		
5	Dibromochloromethane																		
5	1,1,2-Trichloroethane																		
5	*Benzene		UL				UL		UL		UL				UL		UL		
5	Trans-1,3-Dichloropropene																		
5	Bromoform		UJ				UJ		UJ								UJ		
10	4-Methyl-2-pentanone																		
10	2-Hexanone																		
5	*Tetrachloroethene																		
5	1,1,2,2-Tetrachloroethane																		
5	*Toluene		UL				UL		UL		UL				UL		UL		
5	*Chlorobenzene																		
5	*Ethylbenzene																		
5	*Styrene																		
5	*Total Xylenes																		

CRQL = Contract Required Quantitation Limit

* Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

AR300845

DATA SUMMARY FORM: B N A S 1

WATER SAMPLES
(ug/L)

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	56		79-1		112		123		133		Trip-blank		Bottle blank					
	Dilution Factor	1		1		1		1		1		1		1					
	Location																		
10	Phenol																		
10	bis(2-Chloroethyl)ether																		
10	2-Chlorophenol																		
10	*1,3-Dichlorobenzene																		
10	*1,4-Dichlorobenzene																		
10	Benzyl Alcohol																		
10	1,2-Dichlorobenzene																		
10	2-Methylphenol																		
10	bis(2-Chloroisopropyl)ether		UJ		UJ		UJ		UJ		UJ		UJ						
10	4-Methylphenol																		
10	N-Nitroso-di n propylamine																		
10	Hexachloroethane																		
10	Nitrobenzene																		
10	Isophorone																		
10	2-Nitrophenol																		
10	2,4 Dimethylphenol																		
50	Benzoic Acid																		
10	bis(2-Chloroethoxy)methane																		
10	2,4 Dichlorophenol																		
10	1,2,4-Trichlorobenzene																		
10	Naphthalene																		
10	4-Chloroaniline																		

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 2

WATER SAMPLES
(ug/L)

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

AR300846

CRQL	COMPOUND	56		79-1		112		123		133		Trip blank		Bottle blank				
	Dilution Factor	1		1		1		1		1		1		1				
	Location																	
10	Hexachlorobutadiene																	
10	4-Chloro-3-methylphenol																	
10	2-Methylnaphthalene																	
10	Hexachlorocyclopentadiene																	
10	2,4,6-Trichlorophenol																	
50	2,4,5-Trichlorophenol																	
10	2-Chloronaphthalene																	
50	2-Nitroaniline																	
10	Dimethyl phthalate																	
10	Acenaphthylene																	
10	2,6-Dinitrotoluene																	
50	3-Nitroaniline																	
10	Acenaphthene																	
50	2,4-Dinitrophenol																	
50	4-Nitrophenol		UJ		UJ		UJ		UJ		UJ		UJ		UJ			
10	Dibenzofuran																	
10	2,4-Dinitrotoluene																	
10	Diethylphthalate																	
10	4-Chlorophenyl phenylether																	
10	Fluorene																	
50	4-Nitroaniline																	
50	4,6-Dinitro-2-methylphenol																	

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITION

DATA SUMMARY FORM: B N A S 3

Site Name: Cryochem

Case #: 10636 Sampling Date: _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

AR300847

	Sample No.	56		79-1		112		123		133		Trip blank		Bottle blank			
	Dilution Factor	1		1		1		1		1		1		1			
	Location																
CRDL	COMPOUND																
10	N-Nitrosodiphenylamine																
10	4-Bromophenyl-phenylether																
10	*Hexachlorobenzene																
50	*Pentachlorophenol																
10	Phenanthrene																
10	Anthracene																
10	Di-n-butylphthalate																
10	Fluoranthene																
10	Pyrene		UJ		UJ		UJ		UJ		UJ		UJ				
10	Butylbenzylphthalate																
20	3,3-Dichlorobenzidine		UJ		UJ		UJ		UJ		UJ		UJ		UJ		
10	Benzo(a)anthracene																
10	Chrysene																
10	bis(2-Ethylhexyl)phthalate			3	B									3	B		
10	Di-n-octyl phthalate																
10	Benzo(b)fluoranthene																
10	Benzo(k)fluoranthene		UJ		UJ		UJ		UJ		UJ		UJ				
10	Benzo(a)pyrene																
10	Indeno(1,2,3-cd)pyrene		UJ		UJ		UJ		UJ		UJ		UJ				
10	Dibenz(a,h)anthracene														UJ		
10	Benzo(g,h,i)perylene		UJ		UJ		UJ		UJ		UJ		UJ		UJ		

CRQL = Contract Required Quantitation Limit * Action Level Exists SEE NARRATIVE FOR CODE DEFINITION

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

AR300848

CRQL	COMPOUND	56	65	78	79-1	80	86	84	103	112
	Sample No.	56	65	78	79-1	80	86	84	103	112
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location									
0.05	alpha-BHC									
0.05	beta-BHC									
0.05	delta-BHC									
0.05	*Gamma-BHC (Lindane)									
0.05	*Heptachlor									
0.05	Aldrin									
0.05	Heptachlor Epoxide									
0.05	Endosulfan I									
0.10	Dieldrin									
0.10	4,4'-DDE									
0.10	*Endrin									
0.10	Endosulfan II									
0.10	4,4'-DDD									
0.10	Endosulfan Sulfate									
0.10	4,4'-DDT									
0.5	*Methoxychlor									
0.10	Endrin ketone									
0.5	*Alpha-Chlordane									
0.5	*Gamma-Chlordane									
1.0	*Toxaphene									
0.5	*Aroclor-1016									
0.5	*Aroclor-1221									
0.5	*Aroclor-1232									
0.5	*Aroclor-1242									
0.5	*Aroclor-1248									
1.0	*Aroclor-1254									
1.0	*Aroclor-1260									

CRQL = Contract Required Quantitation Limit * A[illegible] Level Exists SEE NARRATIVE FOR CO[illegible] DEFINITIONS

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Cryochem NPL

Case #: 10636 Sampling Date: _____

WATER SAMPLES
(ug/L)

To calculate sample quantitation limit
(CRQL * Dilution Factor)

CRQL	COMPOUND																							
	Sample No.	120		123		124		126		128		133		Trip blank		Cryochem blank								
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0								
	Location																							
0.05	alpha-BHC																							
0.05	beta-BHC																							
0.05	delta-BHC																							
0.05	*Gamma-BHC (Lindane)																							
0.05	*Heptachlor																							
0.05	Aldrin																							
0.05	Heptachlor Epoxide																							
0.05	Endosulfan I																							
0.10	Dieldrin																							
0.10	4,4'-DDE																							
0.10	*Endrin																							
0.10	Endosulfan II																							
0.10	4,4'-DDD																							
0.10	Endosulfan Sulfate																							
0.10	4,4'-DDT																							
0.5	*Methoxychlor																							
0.10	Endrin ketone																							
0.5	*Alpha-Chlordane																							
0.5	*Gamma-Chlordane																							
1.0	*Toxaphene																							
0.5	*Aroclor-1016																							
0.5	*Aroclor-1221																							
0.5	*Aroclor-1232																							
0.5	*Aroclor-1242																							
0.5	*Aroclor-1248																							
1.0	*Aroclor-1254																							
1.0	*Aroclor-1260																							

CRQL = Contract Required Quantitation Limit

* Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

AR300849

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Appendix C

Results as Reported by the Laboratory
for All Target Compounds

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

10_LIQUID

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719745V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719745V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	15	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	15	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300851

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

10

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719745

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-86

% Moisture: Date Extracted: 10-20-86

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-86

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

20

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719748

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719748VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	20	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	12	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

AR300853

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

20

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719748

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 6.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

28

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719754

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719754VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300855

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
28

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719754

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 5.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

35

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719752

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719752VR2

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
35

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719752

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 1/23/8

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
37

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719746

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719746VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	22	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300859

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
37

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719746

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
47

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719751VR

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719751VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/23/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	15	
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

AR300861

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
47

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719751

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/8

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
50

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVQ SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719749

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719749VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not.dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	12	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

AR300863

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
50

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719749

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/8

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

52

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVQ SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719747

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719747VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	70	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	39	B
71-55-6	1,1,1-Trichloroethane	40	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	18	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

AR300865

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
52

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719747

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH ~~10-23-8~~

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 5.3 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

54

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719743

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719743VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	77	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
54

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719743

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: 10-20-88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

56

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719774

Sample wt/vol: _____ (g/mL) ML Lab File ID: 715774V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	14	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	28	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

56_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719774

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719774AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000094
EPA SAMPLE NO.

56_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719774

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719774AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
56

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719774

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: 10-20-88 RRH ~~10-21-88~~ 11/2/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

65_LIQUI

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719755V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719755V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not.dec. _____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	14	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
65

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719755

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

78

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVQ SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719753

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719753VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	16	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
78

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719753

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

79-1

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719770

Sample wt/vol: _____ (g/mL) ML Lab File ID: 715770V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	8	
75-35-3	1,1-Dichloroethane	12	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	17	B
71-55-6	1,1,1-Trichloroethane	140	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	1	J
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	4	BJ
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	1	J
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	1	J
	Total Xylenes	8	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000017

79-1_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719770

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719770AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

000018

EPA SAMPLE NO.

79-1_LIQU

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719770

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719770AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

AR300879

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
79-1

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719770

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: 10-20-88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

80

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 722458

Sample wt/vol: _____ (g/mL) ML Lab File ID: 722458V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	21	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	16	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	3	BJ
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
80

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 722458

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-86

% Moisture: Date Extracted: 10-20-86

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-86

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

88_LIQUID

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719760V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719760V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
88

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719760

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: 10-20-88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

89

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719742

Sample wt/vol: _____ (g/mL) ML Lab File ID: 715775V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
89

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719742

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: 10-20-88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
103

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719750

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719750VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	3	J
75-35-3	1,1-Dichloroethane	5	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	15	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
103

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719750

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

EPA SAMPLE NO

112

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719773

Sample wt/vol: _____ (g/mL) ML Lab File ID: 715773V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	16	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	1	J
	Total Xylenes	1	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

112_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719773

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719773AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

112_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719773

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719773AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

112

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719773

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-86

% Moisture: Date Extracted: ~~10-21-86~~ 10-20-86 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-86

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

120_LIQU

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719759V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719759V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	28	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	22	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300895

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
120

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719759

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: 10-20-88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

123

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719772

Sample wt/vol: _____ (g/mL) ML Lab File ID: 715772V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	16	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300896

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000057

123_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719772

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719772AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

000058

EPA SAMPLE NO.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

123_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719772

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719772AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
123

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719772

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
124_LIQUID

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719756V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719756V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	12	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
124

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719756

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-86

% Moisture: Date Extracted: ~~10-21-86~~ 10-20-86 11/23/86 RPH

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-86

GPC Cleanup: (Y/N) N pH: 4.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
126_LIQUID

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719757V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719757V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300902

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
126

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719757

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

128

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719758VR

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719758VR

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/23/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	63	
67-64-1	Acetone	25	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	13	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300904

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
128

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719758

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-86

% Moisture: Date Extracted: 10-20-86

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-86

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

133

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVQ SAS No.: SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719771

Sample wt/vol: (g/mL) ML Lab File ID: 715771V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	17	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	15	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

AR300906

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

133_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719771

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719771AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

133_LIQUID

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719771

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719771AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
133

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719771

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
TRIPBLANK

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719777

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719777V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ Date Analyzed: 10/23/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	15	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP_BLANK

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719777

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719777AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

000112

EPA SAMPLE NO.

TRIP_BLANK

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719777

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719777AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

AR300912

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719777

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-10-88

GPC Cleanup: (Y/N) N pH: 4.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CRYOCHEM BLK

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVQ SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: 719778V

Sample wt/vol: _____ (g/mL) ML Lab File ID: 719778V

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	15	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

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FORM I VOA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

CRYOCHEM BLANK

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: 719778

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RRH 11/22/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-11-88

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOTTLE_BLANK

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719778

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719778AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

000130
EPA SAMPLE NO.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BOTTLE_BLANK

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 719778

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 719778AB

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

WESTON

APPENDIX D

Contractual Compliance

Organic Data Validation Summary

o - The response factors for 2-butanone were less than 0.05 in the initial and continuing calibration. (See Table I of Appendix E).

o - The %RSD and %D values for several compounds exceeded the precision criteria in the initial and continuing calibration. (See Table I of Appendix E).

o - The maximum concentrations of the following compounds were found in the laboratory method blanks.

Compound	Concentration ug/L
acetone*	16
2-butanone*	15
4-methyl-2-pentanone	3 J
styrene	1 J
total xylenes	1 J
bis(2-ethylhexyl)phthalate*	3 J

* = Common Laboratory Contaminant

o - The semi-volatile extractions of all samples were performed one (1) day in excess of the contractual holding time. (See Appendix E).

o - The pesticide/PCB extractions of all samples were performed two (2) days in excess of the contractual holding time. (See Appendix E).

o - The semi-volatile MS/MSD analysis of sample 79-1 had three (3) out of eleven (11) RPDs and one (1) out of twenty-two (22) recoveries outside of QC limits. (See Form III in Appendix E).

o - The pesticide/PCB fraction of samples 10 MS (719745MS), 10MSD (719745MSD), 79-1 MS (719770 MS), and 79-1 MSD (719770MSD) had low recoveries for dibutylchlorendate.

o - The laboratory did not submit any tentatively identified compound forms for the volatile and semi-volatile fractions.

WESTON

APPENDIX E

SUPPORT DOCUMENTATION

Compounds and Associated Samples Affected by Calibration Uncertainty

Volatiles	10	20	28	35	37	47	50	52	54	56	65	78	79-1	80	88	89	103	112
2-butanone	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*
1,1,2,2-tetrachloroethane		C	C	C	C		C	C				C					C	
acetone	C*					C*			C*		C*				C*			
bromoform	C								C		C				C			
chloromethane										C			C	C		C		C
Semi-volatiles																		
bis(2-chloroisopropyl)ether										C			C					C
4-nitrophenol										C			C					C
pyrene										C			C					C
3,3'-dichlorobenzidine										C			C					C
benzo(k)fluoranthene										C			C					C
indeno(1,2,3-cd)pyrene										C			C					C
benzo(g,h,i)perylene										C			C					C

C = %D exceeded 25% in the continuing calibration. Positive results are qualified "J" and quantitation limits are qualified "UJ".

R = Respose factor was less than 0.05 in the initial or continuing calibration. Detection limits are qualified "R" and positive results are qualified "L".

* = The "B" qualifier denoting blank contamination supersedes the qualifiers issued in this table.

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Compounds and Associated Samples Affected by Calibration Uncertainty

Volatiles	120	123	124	126	128	133	trip blank	cryochem blank	bottle blank
acetone	C*		C*	C	C*		C*	C*	
2-butanone	R*	R*	R*	R*	R*	R*	R*	R*	
bromoform	C		C	C				C	
chloromethane		C				C			
Semi-volatiles									
bis(2-chloroisopropyl)ether		C				C	C		
pyrene		C				C	C		
3,3'-dichlorobenzidine		C				C	C		C
benzo(k)fluoranthene		C				C	C		
indeno(1,2,3-cd)pyrene		C				C	C		
benzo(g,h,i)perylene		C				C	C		
4-nitrophenol		C				C	C		C
bis(2-ethylhexyl)phthalate									C*
dibenz(a,h)anthracene									C
benzo(g,h,i)perylene									C

C = %D exceeded 25% in the continuing calibration. Positive results are qualified "J" and quantitation limits are qualified "UJ".

R = Response factor was less than 0.05 in the initial or continuing calibration. Detection limits are qualified "R" and positive results are qualified "L".

* = The "B" qualifier denoting blank contamination supersedes the qualifiers issued in this table.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Instrument ID: C Calibration Date(s): 10/19/88 10/19/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = VS201019 RRF50 = VS501019
RRF100= VS1001019 RRF150= VS1501019 RRF200= VS2001019

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.997	0.823	0.860	0.912	0.922	0.903	7.3
Bromomethane	1.450	1.313	1.271	1.355	1.313	1.340	5.1
Vinyl Chloride *	1.297	1.284	1.176	1.290	1.253	1.260	4.0
Chloroethane	0.784	0.734	0.691	0.757	0.721	0.737	4.8
Methylene Chloride	1.490	1.417	1.289	1.396	1.314	1.381	5.9
Acetone	0.299	0.281	0.288	0.277	0.266	0.282	4.4
Carbon Disulfide	2.499	2.685	2.811	3.034	2.954	2.797	7.6
1,1-Dichloroethene *	1.302	1.250	1.221	1.295	1.245	1.263	2.7
1,1-Dichloroethane #	2.695	2.603	2.539	2.764	2.581	2.636	3.5
1,2-Dichloroethene (total)	1.371	1.355	1.258	1.429	1.356	1.354	4.5
Chloroform *	2.848	2.731	2.689	2.984	2.812	2.813	4.1
1,2-Dichloroethane	1.784	1.733	1.726	1.827	1.750	1.764	2.4
2-Butanone	0.037	0.031	0.030	0.028	0.027	0.031	12.6
1,1,1-Trichloroethane	0.472	0.456	0.486	0.534	0.489	0.487	6.0
Carbon Tetrachloride	0.338	0.358	0.390	0.452	0.433	0.394	12.3
Vinyl Acetate	0.542	0.623	0.667	0.750	0.646	0.646	11.6
Bromodichloromethane	0.473	0.498	0.547	0.619	0.582	0.544	11.0
1,2-Dichloropropane *	0.476	0.471	0.466	0.505	0.467	0.477	3.4
cis-1,3-Dichloropropene	0.239	0.278	0.287	0.320	0.328	0.290	12.3
Trichloroethene	0.484	0.473	0.467	0.503	0.476	0.481	2.9
Dibromochloromethane	0.329	0.415	0.454	0.527	0.541	0.453	19.3
1,1,2-Trichloroethane	0.317	0.349	0.336	0.367	0.370	0.348	6.3
Benzene	0.973	0.957	0.939	0.979	0.792	0.928	8.
Trans-1,3-Dichloropropene	0.562	0.609	0.627	0.704	0.660	0.632	8.
Bromoform #	0.164	0.216	0.262	0.312	0.333	0.257	26.
4-Methyl-2-Pentanone	0.372	0.399	0.431	0.444	0.407	0.411	6.
2-Hexanone	0.372	0.399	0.431	0.444	0.407	0.411	6.
Tetrachloroethene	0.443	0.435	0.421	0.469	0.442	0.442	4.
1,1,2,2-Tetrachloroethane #	0.496	0.565	0.663	0.689	0.643	0.611	13.
Toluene *	0.751	0.722	0.712	0.760	0.699	0.729	3.
Chlorobenzene #	1.033	0.991	0.984	1.038	0.896	0.988	5.
Ethylbenzene *	0.492	0.480	0.469	0.500	0.478	0.484	2.
Styrene	0.866	0.833	0.810	0.865	0.849	0.845	2.
Total Xylenes	0.540	0.514	0.531	0.554	0.517	0.531	3.
Toluene-d8	1.186	1.190	1.176	1.192	1.175	1.184	0.
BFB	0.809	0.801	0.792	0.809	0.813	0.805	1.
1,2-Dichloroethane-d4	1.452	1.538	1.622	1.709	1.827	1.630	9.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Instrument ID: C Calibration date: 10/21/88 Time: 0821

Lab File ID: VS1001021R Init. Calib. Date(s): 10/19/88 10/19/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.

COMPOUND		RRF	RRF50	%D		Samples
Chloromethane	#	0.903	0.901	0.2	#	
Bromomethane		1.340	1.292	3.6		37
Vinyl Chloride	*	1.260	1.205	4.4	*	52
Chloroethane		0.737	0.733	0.5		
Methylene Chloride		1.381	1.352	2.1		70
Acetone		0.282	0.328	-16.3		50
Carbon Disulfide		2.797	3.085	-10.3		
1,1-Dichloroethene	*	1.263	1.257	0.5	*	103
1,1-Dichloroethane	#	2.636	2.585	1.9	#	35
1,2-Dichloroethene (total)		1.354	1.383	-2.1		
Chloroform	*	2.813	2.803	0.4	*	78
1,2-Dichloroethane		1.764	1.835	-4.0		28
2-Butanone		0.031	0.028	9.7		20
1,1,1-Trichloroethane		0.487	0.474	2.7		
Carbon Tetrachloride		0.394	0.413	-4.8		
Vinyl Acetate		0.646	0.680	-5.3		
Bromodichloromethane		0.544	0.553	-1.7		
1,2-Dichloropropane	*	0.477	0.430	9.9	*	
cis-1,3-Dichloropropene		0.290	0.274	5.5		
Trichloroethene		0.481	0.458	4.8		
Dibromochloromethane		0.453	0.492	-8.6		
1,1,2-Trichloroethane		0.348	0.337	3.2		
Benzene		0.928	0.930	-0.2		
Trans-1,3-Dichloropropene		0.632	0.604	4.4		
Bromoform	#	0.257	0.308	-19.8	#	
4-Methyl-2-Pentanone		0.411	0.447	-8.8		
2-Hexanone		0.411	0.447	-8.8		
Tetrachloroethene		0.442	0.435	1.6		
1,1,2,2-Tetrachloroethane	#	0.611	0.777	-27.2	#	
Toluene	*	0.729	0.720	1.2	*	
Chlorobenzene	#	0.988	1.042	-5.5	#	
Ethylbenzene	*	0.484	0.497	-2.7	*	
Styrene		0.845	0.906	-7.2		
Total Xylenes		0.531	0.558	-5.1		
Toluene-d8		1.184	1.155	2.4		
BFB		0.805	0.812	-0.9		
1,2-Dichloroethane-d4		1.630	1.664	-2.1		

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7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Instrument ID: C Calibration date: 10/23/88 Time: 0818

Lab File ID: VS1001023 Init. Calib. Date(s): 10/19/88 10/19/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.

COMPOUND	RRF	RRF50	%D		Samples
Chloromethane #	0.903	0.799	11.5	#	
Bromomethane	1.340	1.312	2.1		
Vinyl Chloride *	1.260	1.281	-1.7	*	VBLK1023
Chloroethane	0.737	0.762	-3.4		Trip blank
Methylene Chloride	1.381	1.373	0.6		
Acetone	0.282	0.383	-35.8		47
Carbon Disulfide	2.797	2.916	-4.3		128
1,1-Dichloroethene *	1.263	1.237	2.1	*	
1,1-Dichloroethane #	2.636	2.468	6.4	#	Trip blank (Spk 102
1,2-Dichloroethene (total)	1.354	1.337	1.3		Trip blank (Spk 102
Chloroform *	2.813	2.688	4.4	*	
1,2-Dichloroethane	1.764	1.793	-1.6		
2-Butanone	0.031	0.029	6.5		
1,1,1-Trichloroethane	0.487	0.456	6.4		
Carbon Tetrachloride	0.394	0.399	-1.3		
Vinyl Acetate	0.646	0.684	-5.9		
Bromodichloromethane	0.544	0.518	4.8		
1,2-Dichloropropane *	0.477	0.406	14.9	*	
cis-1,3-Dichloropropene	0.290	0.280	3.4		
Trichloroethene	0.481	0.449	6.7		
Dibromochloromethane	0.453	0.467	-3.1		
1,1,2-Trichloroethane	0.348	0.332	4.6		
Benzene	0.928	0.921	0.8		
Trans-1,3-Dichloropropene	0.632	0.597	5.5		
Bromoform #	0.257	0.293	-14.0	#	
4-Methyl-2-Pentanone	0.411	0.456	-11.0		
2-Hexanone	0.411	0.456	-11.0		
Tetrachloroethene	0.442	0.412	6.8		
1,1,2,2-Tetrachloroethane #	0.611	0.737	-20.6	#	
Toluene *	0.729	0.690	5.4	*	
Chlorobenzene #	0.988	0.962	2.6	#	
Ethylbenzene *	0.484	0.455	6.0	*	
Styrene	0.845	0.813	3.8		
Total Xylenes	0.531	0.515	3.0		
Toluene-d8	1.184	1.146	3.2		
BFB	0.805	0.799	0.7		
1,2-Dichloroethane-d4	1.630	1.646	-1.0		

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Instrument ID: C Calibration date: 10/22/88 Time: 1033

Lab File ID: VSC1001022 Init. Calib. Date(s): 10/19/88 10/19/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.

COMPOUND		RRF	RRF50	%D		
Chloromethane	#	0.903	0.797	11.7	#	
Bromomethane		1.340	1.271	5.1		Samples
Vinyl Chloride	*	1.260	1.210	4.0	*	
Chloroethane		0.737	0.696	5.6		54
Methylene Chloride		1.381	1.292	6.4		
Acetone		0.282	0.442	-56.7		cyclohex - BLK
Carbon Disulfide		2.797	2.877	-2.9		
1,1-Dichloroethene	*	1.263	1.194	5.5	*	110
1,1-Dichloroethane	#	2.636	2.381	9.7	#	65
1,2-Dichloroethene (total)		1.354	1.274	5.9		124
Chloroform	*	2.813	2.603	7.5	*	126
1,2-Dichloroethane		1.764	1.678	4.9		120
2-Butanone		0.031	0.028	9.7		88
1,1,1-Trichloroethane		0.487	0.473	2.9		
Carbon Tetrachloride		0.394	0.416	-5.6		
Vinyl Acetate		0.646	0.710	-9.9		
Bromodichloromethane		0.544	0.551	-1.3		
1,2-Dichloropropane	*	0.477	0.424	11.1	*	
cis-1,3-Dichloropropene		0.290	0.289	0.3		
Trichloroethene		0.481	0.453	5.8		
Dibromochloromethane		0.453	0.503	-11.0		
1,1,2-Trichloroethane		0.348	0.351	-0.9		
Benzene		0.928	0.906	2.4		
Trans-1,3-Dichloropropene		0.632	0.633	-0.2		
Bromoform	#	0.257	0.323	-25.7	#	
4-Methyl-2-Pentanone		0.411	0.475	-15.6		
2-Hexanone		0.411	0.475	-15.6		
Tetrachloroethene		0.442	0.431	2.5		
1,1,2,2-Tetrachloroethane	#	0.611	0.695	-13.8	#	
Toluene	*	0.729	0.691	5.2	*	
Chlorobenzene	#	0.988	0.988	0.0	#	
Ethylbenzene	*	0.484	0.464	4.1	*	
Styrene		0.845	0.810	4.1		
Total Xylenes		0.531	0.506	4.7		
Toluene-d8		1.184	1.168	1.4		
BFB		0.805	0.829	-3.0		
1,2-Dichloroethane-d4		1.630	1.577	3.3		

AR300926

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Instrument ID: C Calibration date: 10/20/88 Time: 1529

Lab File ID: VS1001020 Init. Calib. Date(s): 10/19/88 10/19/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.

COMPOUND		RRF	RRF50	%D		Samples
Chloromethane	#	0.903	1.135	-25.7	#	
Bromomethane		1.340	1.436	-7.2		
Vinyl Chloride	*	1.260	1.319	-4.7	*	133(719771
Chloroethane		0.737	0.769	-4.3		133(719771
Methylene Chloride		1.381	1.424	-3.1		79-1
Acetone		0.282	0.264	6.4		
Carbon Disulfide		2.797	3.262	-16.6		
1,1-Dichloroethene	*	1.263	1.263	0.0	*	133 (71977
1,1-Dichloroethane	#	2.636	2.581	2.1	#	123
1,2-Dichloroethene (total)		1.354	1.343	0.8		
Chloroform	*	2.813	2.736	2.7	*	112
1,2-Dichloroethane		1.764	1.706	3.3		56
2-Butanone		0.031	0.022	29.0		89
1,1,1-Trichloroethane		0.487	0.490	-0.6		80
Carbon Tetrachloride		0.394	0.414	-5.1		
Vinyl Acetate		0.646	0.519	19.7		
Bromodichloromethane		0.544	0.529	2.8		
1,2-Dichloropropane	*	0.477	0.440	7.8	*	
cis-1,3-Dichloropropene		0.290	0.267	7.9		
Trichloroethene		0.481	0.469	2.5		
Dibromochloromethane		0.453	0.432	4.6		
1,1,2-Trichloroethane		0.348	0.310	10.9		
Benzene		0.928	0.907	2.3		
Trans-1,3-Dichloropropene		0.632	0.590	6.6		
Bromoform	#	0.257	0.250	2.7	#	
4-Methyl-2-Pentanone		0.411	0.334	18.7		
2-Hexanone		0.411	0.334	18.7		
Tetrachloroethene		0.442	0.448	-1.4		
1,1,2,2-Tetrachloroethane	#	0.611	0.542	11.3	#	
Toluene	*	0.729	0.697	4.4	*	
Chlorobenzene	#	0.988	0.972	1.6	#	
Ethylbenzene	*	0.484	0.465	3.9	*	
Styrene		0.845	0.827	2.1		
Total Xylenes		0.531	0.522	1.7		
Toluene-d8		1.184	1.190	-0.5		
BFB		0.805	0.822	-2.1		
1,2-Dichloroethane-d4		1.630	1.642	-0.7		

AR300927

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Instrument ID: 5100 Calibration Date(s): 11/16/88 11/16/88

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HSB201116 RRF50 = HSB501116R
RRF80 = HSB801116 RRF120= HSB1201116 RRF160= HSB1601116

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	2.100	1.853	1.697	1.513	1.342	1.701	17.3*
bis(2-Chloroethyl)Ether	1.884	1.749	1.644	1.253	1.222	1.550	19.2
2-Chlorophenol	1.543	1.415	1.409	1.295	1.268	1.386	7.9
1,3-Dichlorobenzene	1.516	1.389	1.336	1.205	1.179	1.325	10.4
1,4-Dichlorobenzene *	1.491	1.357	1.253	1.126	1.077	1.261	13.4*
Benzyl Alcohol	0.980	0.811	0.869	0.754	1.301	0.943	23.0
1,2-Dichlorobenzene	1.467	1.350	1.270	1.133	0.941	1.232	16.5
2-Methylphenol	1.371	1.248	0.903	1.092	1.132	1.149	15.3
bis(2-Chloroisopropyl)Ether	1.671	1.621	1.414	1.218	1.143	1.425	17.5
4-Methylphenol	1.437	1.301	1.254	1.136	1.258	1.277	8.5
N-Nitroso-Di-n-Propylamine #	1.297	1.256	1.106	0.948	0.706	1.063	22.8#
Hexachloroethane	0.685	0.639	0.596	0.512	0.505	0.587	13.4
Nitrobenzene	0.499	0.432	0.419	0.387	0.385	0.424	1[illegible]
Isophorone	1.085	0.945	0.967	0.917	0.533	0.889	2[illegible]
2-Nitrophenol *	0.240	0.205	0.221	0.208	0.216	0.218	6.3*
2,4-Dimethylphenol	0.350	0.306	0.314	0.283	0.291	0.309	8.4
Benzoic Acid		0.187	0.211	0.181	0.073	0.163	37.7
bis(2-Chloroethoxy)Methane	0.685	0.586	0.567	0.529	0.532	0.580	11.0
2,4-Dichlorophenol *	0.307	0.267	0.265	0.247	0.256	0.268	8.6*
1,2,4-Trichlorobenzene	0.307	0.268	0.265	0.247	0.243	0.266	9.5
Naphthalene	1.190	0.918	0.794	0.742	0.741	0.877	21.6
4-Chloroaniline	0.751	0.538	0.471	0.412	0.763	0.587	27.5
Hexachlorobutadiene *	0.136	0.117	0.118	0.110	0.108	0.118	9.4*
4-Chloro-3-Methylphenol *	0.407	0.348	0.350	0.305	0.332	0.348	10.7*
2-Methylnaphthalene	0.859	0.561	0.492	0.440	0.703	0.611	27.9
Hexachlorocyclopentadiene #	0.172	0.156	0.164	0.176	0.180	0.170	5.7#
2,4,6-Trichlorophenol *	0.328	0.322	0.318	0.341	0.385	0.339	8.0*
2,4,5-Trichlorophenol		0.300	0.265	0.208	0.197	0.243	20.0
2-Chloronaphthalene	1.202	1.134	1.025	0.962	1.028	1.070	9.0
2-Nitroaniline		0.559	0.455	0.427	0.822	0.566	31.8
Dimethyl Phthalate	1.380	1.356	0.971	0.774	0.961	1.088	24.6
Acenaphthylene	1.948	1.795	1.455	1.394	1.504	1.619	14.8
2,6-Dinitrotoluene	0.296	0.314	0.274	0.174	0.169	0.245	28.1
3-Nitroaniline		0.460	0.368	0.220	0.457	0.376	29.9
Acenaphthene *	1.244	1.094	0.877	0.866	0.914	0.999	16.5*
2,4-Dinitrophenol #		0.133	0.125	0.083	0.126	0.117	19.5#
4-Nitrophenol #		0.278	0.255	0.336	0.566	0.359	39.6#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Instrument ID: 5100 Calibration Date(s): 11/16/88 11/16/88

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HSB201116 RRF50 = HSB501116R
RRF80 = HSB801116 RRF120= HSB1201116 RRF160= HSB1601116

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	2.124	1.523	1.341	1.209	1.127	1.465	27.2
2,4-Dinitrotoluene	0.332	0.358	0.278	0.214	0.320	0.300	18.8
Diethylphthalate	1.504	1.464	1.028	0.847	0.993	1.167	25.5
4-Chlorophenyl-phenylether	0.498	0.469	0.402	0.344	0.353	0.413	16.6
Fluorene	1.130	1.048	0.802	0.555	0.726	0.852	27.7
4-Nitroaniline		0.332	0.231	0.205	0.199	0.242	25.5
4,6-Dinitro-2-Methylphenol		0.115	0.124	0.114	0.081	0.109	17.3
N-Nitrosodiphenylamine (1) *	0.488	0.392	0.445	0.398	0.441	0.433	9.0*
4-Bromophenyl-phenylether	0.155	0.159	0.171	0.171	0.165	0.164	4.4
Hexachlorobenzene	0.180	0.183	0.203	0.247	0.200	0.203	13.2
Pentachlorophenol *		0.087	0.103	0.108	0.101	0.100	9.0*
Phenanthrene	1.194	1.122	1.089	1.078	1.035	1.104	5.4
Anthracene	1.087	1.006	0.784	0.894	0.652	0.885	19.6
Di-n-Butylphthalate	1.551	1.494	1.320	1.456	1.283	1.421	8.1
Fluoranthene *	0.965	0.935	0.742	0.847	0.805	0.859	10.7*
Pyrene	1.953	1.669	1.523	1.395	1.489	1.606	13.6
Butylbenzylphthalate	1.095	1.172	1.168	1.046	1.056	1.107	5.4
3,3'-Dichlorobenzidine	0.237	0.243	0.278	0.264	0.252	0.255	6.5
Benzo(a)Anthracene	1.141	1.159	1.130	1.142	1.153	1.145	1.0
Chrysene	1.059	1.040	1.030	1.049	0.956	1.027	4.0
bis(2-Ethylhexyl)Phthalate	1.500	1.638	1.745	1.563	1.636	1.616	5.7
Di-n-Octyl Phthalate *	4.103	5.078	5.059	4.450	4.276	4.593	9.8*
Benzo(b)Fluoranthene	1.485	1.561	1.550	1.806	1.774	1.635	8.9
Benzo(k)Fluoranthene	1.326	1.363	1.283	1.167	0.933	1.214	14.3
Benzo(a)Pyrene *	1.247	1.346	1.394	1.460	1.385	1.366	5.7*
Indeno(1,2,3-cd)Pyrene	0.653	0.293	0.503	0.489	0.805	0.549	35.0
Dibenz(a,h)Anthracene	0.682	0.599	0.586	0.633	0.366	0.573	21.2
Benzo(g,h,i)Perylene	0.680	0.528	0.440	0.481	0.374	0.501	23.0
Nitrobenzene-d5	0.532	0.450	0.427	0.406	0.398	0.443	12.2
2-Fluorobiphenyl	1.282	1.118	0.933	0.926	0.942	1.040	15.1
Terphenyl-d14	1.126	1.058	1.001	0.994	0.985	1.033	5.8
Phenol-d5	1.629	1.564	1.421	1.237	1.074	1.385	16.6
2-Fluorophenyl	1.388	1.372	1.324	1.275	1.259	1.324	4.3
2,4,6-Tribromophenol	0.093	0.091	0.085	0.070	0.091	0.086	11.0

(1) Cannot be separated from Diphenylamine

AR300929

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Instrument ID: 5100 Calibration date: 11/17/88 Time: 0956

Lab File ID: HSB501117 Init. Calib. Date(s): 11/16/88 11/16/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D		
Phenol	*	1.701	1.882	-10.6	*	
bis(2-Chloroethyl)Ether		1.550	1.779	-14.8		Samples
2-Chlorophenol		1.386	1.401	-1.1		
1,3-Dichlorobenzene		1.325	1.397	-5.4		
1,4-Dichlorobenzene	*	1.261	1.376	-9.1	*	Ac Blank 17
Benzyl Alcohol		0.943	0.726	23.0		
1,2-Dichlorobenzene		1.232	1.349	-9.5		79-1
2-Methylphenol		1.149	1.250	-8.8		
bis(2-Chloroisopropyl)Ether		1.425	2.066	-45.0		133
4-Methylphenol		1.277	1.251	2.0		123
N-Nitroso-Di-n-Propylamine	*	1.063	1.210	-13.8	*	
Hexachloroethane		0.587	0.653	-11.2		112
Nitrobenzene		0.424	0.473	-11.6		56
Isophorone		0.889	1.015	-14.2		Trip blank
2-Nitrophenol	*	0.218	0.206	5.5	*	
2,4-Dimethylphenol		0.309	0.308	0.3		
Benzoic Acid		0.163	0.192	-17.8		
bis(2-Chloroethoxy)Methane		0.580	0.618	-6.6		
2,4-Dichlorophenol	*	0.268	0.266	0.7	*	
1,2,4-Trichlorobenzene		0.266	0.277	-4.1		
Naphthalene		0.877	0.923	-5.2		
4-Chloroaniline		0.587	0.483	17.7		
Hexachlorobutadiene	*	0.118	0.116	1.7	*	
4-Chloro-3-Methylphenol	*	0.348	0.329	5.5	*	
2-Methylnaphthalene		0.611	0.551	9.8		
Hexachlorocyclopentadiene	#	0.170	0.164	3.5	#	
2,4,6-Trichlorophenol	*	0.339	0.319	5.9	*	
2,4,5-Trichlorophenol		0.243	0.293	-20.6		
2-Chloronaphthalene		1.070	1.204	-12.5		
2-Nitroaniline		0.566	0.480	15.2		
Dimethyl Phthalate		1.088	1.189	-9.3		
Acenaphthylene		1.619	1.804	-11.4		
2,6-Dinitrotoluene		0.245	0.272	-11.0		
3-Nitroaniline		0.376	0.337	10.4		
Acenaphthene	*	0.999	1.044	-4.5	*	
2,4-Dinitrophenol	#	0.117	0.107	8.5	#	
4-Nitrophenol	#	0.359	0.217	39.6	#	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Instrument ID: 5100 Calibration date: 11/17/88 Time: 0956

Lab File ID: HSB501117 Init. Calib. Date(s): 11/16/88 11/16/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	Samples
Dibenzofuran	1.465	1.551	-5.9	
2,4-Dinitrotoluene	0.300	0.298	0.7	
Diethylphthalate	1.167	1.327	-13.7	
4-Chlorophenyl-phenylether	0.413	0.447	-8.2	
Fluorene	0.852	0.973	-14.2	AO Blank 17
4-Nitroaniline	0.242	0.222	8.3	79-1
4,6-Dinitro-2-Methylphenol	0.109	0.109	0.0	
N-Nitrosodiphenylamine (1) *	0.433	0.496	-14.6 *	133
4-Bromophenyl-phenylether	0.164	0.157	4.3	123
Hexachlorobenzene	0.203	0.180	11.3	
Pentachlorophenol *	0.100	0.089	11.0 *	112
Phenanthrene	1.104	1.086	1.6	
Anthracene	0.885	0.963	-8.8	56
Di-n-Butylphthalate	1.421	1.370	3.6	
Fluoranthene *	0.859	0.793	7.7 *	Trip blank
Pyrene	1.606	2.021	-25.8	
Butylbenzylphthalate	1.107	1.095	1.1	
3,3'-Dichlorobenzidine	0.255	0.177	30.6	
Benzo(a)Anthracene	1.145	1.173	-2.4	
Chrysene	1.027	1.094	-6.5	
bis(2-Ethylhexyl)Phthalate	1.616	1.557	3.7	
Di-n-Octyl Phthalate *	4.593	4.853	-5.7 *	
Benzo(b)Fluoranthene	1.635	1.645	-0.6	
Benzo(k)Fluoranthene	1.214	1.522	-25.4	
Benzo(a)Pyrene *	1.366	1.388	-1.6 *	
Indeno(1,2,3-cd)Pyrene	0.549	0.699	-27.3	
Dibenz(a,h)Anthracene	0.573	0.645	-12.6	
Benzo(g,h,i)Perylene	0.501	0.634	-26.6	
Nitrobenzene-d5	0.443	0.477	-7.7	
2-Fluorobiphenyl	1.040	1.176	-13.1	
Terphenyl-d14	1.033	1.195	-15.7	
Phenol-d5	1.385	1.550	-11.9	
2-Fluorophenyl	1.324	1.420	-7.3	
2,4,6-Tribromophenol	0.086	0.077	10.5	

(1) Cannot be separated from Diphenylamine

AR300931

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

000251

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Instrument ID: 5100 Calibration date: 11/17/88 Time: 2254

Lab File ID: HSB501117P Init. Calib. Date(s): 11/16/88 11/16/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.701	1.832	-7.7	*
bis(2-Chloroethyl)Ether		1.550	1.675	-8.1	
2-Chlorophenol		1.386	1.345	3.0	
1,3-Dichlorobenzene		1.325	1.400	-5.7	
1,4-Dichlorobenzene	*	1.261	1.357	-7.6	*
Benzyl Alcohol		0.943	0.727	22.9	
1,2-Dichlorobenzene		1.232	1.339	-8.7	
2-Methylphenol		1.149	1.192	-3.7	
bis(2-Chloroisopropyl)Ether		1.425	1.752	-23.0	
4-Methylphenol		1.277	1.189	6.9	
N-Nitroso-Di-n-Propylamine	#	1.063	1.068	-0.5	#
Hexachloroethane		0.587	0.643	-9.5	
Nitrobenzene		0.424	0.439	-3.5	
Isophorone		0.889	0.921	-3.6	
2-Nitrophenol	*	0.218	0.194	11.0	*
2,4-Dimethylphenol		0.309	0.293	5.2	
Benzoic Acid		0.163	0.167	-2.5	
bis(2-Chloroethoxy)Methane		0.580	0.570	1.7	
2,4-Dichlorophenol	*	0.268	0.255	4.9	*
1,2,4-Trichlorobenzene		0.266	0.275	-3.4	
Naphthalene		0.877	0.914	-4.2	
4-Chloroaniline		0.587	0.443	24.5	
Hexachlorobutadiene	*	0.118	0.118	0.0	*
4-Chloro-3-Methylphenol	*	0.348	0.306	12.1	*
2-Methylnaphthalene		0.611	0.542	11.3	
Hexachlorocyclopentadiene	#	0.170	0.157	7.6	#
2,4,6-Trichlorophenol	*	0.339	0.321	5.3	*
2,4,5-Trichlorophenol		0.243	0.301	-23.9	
2-Chloronaphthalene		1.070	1.221	-14.1	
2-Nitroaniline		0.566	0.438	22.6	
Dimethyl Phthalate		1.088	1.197	-10.0	
Acenaphthylene		1.619	1.771	-9.4	
2,6-Dinitrotoluene		0.245	0.267	-9.0	
3-Nitroaniline		0.376	0.310	17.6	
Acenaphthene	*	0.999	1.044	-4.5	*
2,4-Dinitrophenol	#	0.117	0.096	18.0	#
4-Nitrophenol	#	0.359	0.221	38.4	#

Samples

AO Blank 17

Bottle Bla

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Instrument ID: 5100 Calibration date: 11/17/88 Time: 2254

Lab File ID: HSB501117P Init. Calib. Date(s): 11/16/88 11/16/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.465	1.541	-5.2	
2,4-Dinitrotoluene	0.300	0.300	0.0	
Diethylphthalate	1.167	1.261	-8.1	
4-Chlorophenyl-phenylether	0.413	0.450	-9.0	
Fluorene	0.852	1.006	-18.1	
4-Nitroaniline	0.242	0.216	10.7	
4,6-Dinitro-2-Methylphenol	0.109	0.097	11.0	
N-Nitrosodiphenylamine (1) *	0.433	0.501	-15.7	*
4-Bromophenyl-phenylether	0.164	0.158	3.7	
Hexachlorobenzene	0.203	0.183	9.9	
Pentachlorophenol *	0.100	0.090	10.0	*
Phenanthrene	1.104	1.093	1.0	
Anthracene	0.885	1.013	-14.5	
Di-n-Butylphthalate	1.421	1.274	10.3	
Fluoranthene *	0.859	0.885	-3.0	*
Pyrene	1.606	1.951	-21.5	
Butylbenzylphthalate	1.107	0.836	24.5	
3,3'-Dichlorobenzidine	0.255	0.169	33.7	
Benzo(a)Anthracene	1.145	1.156	-1.0	
Chrysene	1.027	1.090	-6.1	
bis(2-Ethylhexyl)Phthalate	1.616	1.188	26.5	
Di-n-Octyl Phthalate *	4.593	3.753	18.3	*
Benzo(b)Fluoranthene	1.635	1.706	-4.3	
Benzo(k)Fluoranthene	1.214	1.446	-19.1	
Benzo(a)Pyrene *	1.366	1.399	-2.4	*
Indeno(1,2,3-cd)Pyrene	0.549	0.686	-25.0	
Dibenz(a,h)Anthracene	0.573	0.735	-28.3	
Benzo(g,h,i)Perylene	0.501	0.650	-29.7	
Nitrobenzene-d5	0.443	0.444	-0.2	
2-Fluorobiphenyl	1.040	1.181	-13.6	
Terphenyl-d14	1.033	1.157	-12.0	
Phenol-d5	1.385	1.448	-4.5	
2-Fluorophenyl	1.324	1.353	-2.2	
2,4,6-Tribromophenol	0.086	0.076	11.6	

Samples
AQ Blank 171
Bottle Blank

(1) Cannot be separated from Diphenylamine

AR300933

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA2 SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: 79-1 LIQUID

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	100	0	58.6	59	12- 86
2-Chlorophenol	100	0	82.8	83	27-123
1,4-Dichlorobenzene	50.0	0	43.4	87	36 97
N-Nitroso-di-n-prop.(1)	50.0	0	43.8	88	41 116
1,2,4-Trichlorobenzene	50.0	0	46.4	93	39 98
4-Chloro-3-methylphenol	100	0	88.6	89	23 97
Acenaphthene	50.0	0	48.4	97	46-118
4-Nitrophenol	100	0	39.2	39	10- 80
2,4-Dinitrotoluene	50.0	0	41.4	83	24- 96
Pentachlorophenol	100	0	79.8	80	9-103
Pyrene	50.0	0	64.4	129 *	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	58.0	58	2	42	12- 86
2-Chlorophenol	100	81.0	81	2	40	27-123
1,4-Dichlorobenzene	50.0	32.4	65	29 *	28	36 97
N-Nitroso-di-n-prop.(1)	50.0	30.6	61	36	38	41 116
1,2,4-Trichlorobenzene	50.0	33.6	67	33 *	28	39 98
4-Chloro-3-methylphenol	100	87.6	88	1	42	23 97
Acenaphthene	50.0	36.4	73	28	31	46-118
4-Nitrophenol	100	38.0	38	3	50	10- 80
2,4-Dinitrotoluene	50.0	27.4	55	41 *	38	24- 96
Pentachlorophenol	100	90.6	91	-13	50	9-103
Pyrene	50.0	49.8	100	25	31	26-127

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

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

RPD: 3 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS: 79-1 ,LIQUID / INSTRUMENT:B / ANALYST: WSS
1000 MLS/2.0 MLS / SUBMITTED BY: JACA

000536

EPA SAMPLE NO.

VBLK1020

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: BLK1020

Sample wt/vol: _____ (g/mL) ML Lab File ID: BLK1020

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/20/88

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	16	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	15	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	3	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1021R

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVO SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: BLK1021R

Sample wt/vol: _____ (g/mL) ML Lab File ID: BLK1021R

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/21/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	1	J
	Total Xylenes	1	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1022

Lab Name: Q C INC. Contract: JACA

Lab Code: 09-131 Case No.: JACAVQ SAS No.: _____ SDG No.: 0

Matrix: (soil/water) WATER Lab Sample ID: BLKC1022

Sample wt/vol: _____ (g/mL) ML Lab File ID: BLKC1022

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. _____ Date Analyzed: 10/22/88

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	14	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	1	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

AR300937

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQ_BLANK_1

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLKW1116

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BLKW1116

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/16/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQ_BLANK_16

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLKW1116

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BLKW1116

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/16/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

AR300939

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000331

EPA SAMPLE NO.

AQ_BLANK_1

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLKW1117P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BLKW1117P

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

000332

EPA SAMPLE NO.

AQ_BLANK_17P

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Q C INC. Contract: _____

Lab Code: _____ Case No.: JACA1 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: BLKW1117P

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BLKW1117P

Level: (low/med) LOW Date Received: 10/13/88

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/19/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

AR300941

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
1021PWBB12

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: JACA_METHOD_BLK

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RPH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

AR300942

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
1021PWBB27

Lab Name: QC Inc. Contract: JACA

Lab Code: 77166/77648 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample: JACA_METHOD_BLK

Sample wt/vol: 1000 (ml/ml) 10 Lab File ID:

Level: (low/med) Date Received: 10-13-88

% Moisture: Date Extracted: ~~10-21-88~~ 10-20-88 RDH 11/23/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11-09-88

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4' -DDE	0.1	U
72-20-8	Endrin	0.05	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4' -DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4' -DDT	0.1	U
72-43-5	Methoxychlor	0.1	U
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-22-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U