Roy F. Weston, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

Back to START for re-evaluation

START-02-F-01233

TRANSMITTAL MEMO

To: Mr. Eric Wilson, OSC
Removal Action Branch, U.S. EPA Region II

From: Ed Moyle, Data Reviewer
Mr. Michael Mankopf, PM
START Region II

Subject: Cornell-Dubilier Electronic Site
Data Validation Assessment

Date: August 4, 1997

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

  PCB 21 samples

- Matrices and Number of Samples

  Soils 21 sample

- Sampling dates: 26 & 27 June, 1997

The final data assessment narrative and original analytical data package are attached.

cc: START PM: Michael Mankopf
START FILE TDD #: 02-97-02-0015B

PCS #: 01970

211012

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: 4 August, 1997

TO: Eric Wilson, OSC
USEPA Region II

FROM: Ed Moyle
START Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Volatiles	II B/N/A	III Pesticide	IV Metals + CN
Acceptable as Submitted	____	____	____	____
Acceptable with Comments	____	____	X	____
Unacceptable, Action Pending	____	____	____	____
Unacceptable	____	____	____	____

Data Reviewed by: Ed Moyle EM Date: 8/4/1997
Approved By: [signature] Date: 8/5/97

Area Code/Phone No.: (908) 225-6116

NARRATIVE

CASE No. 1331

SITE NAME: Cornell-Dubilier Electronics Site

333 Hamilton Boulevard, South Plainfield, New Jersey

Laboratory Name: ICM Labs

INTRODUCTION:

The laboratory's portion of this Case consisted of 21 grab low concentrate soil samples collected on 26 & 27 June, 1997 .

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of PCB organic compounds.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Evaluation by Fraction

Pesticides/PCBs

_X_ Holding Times	_X_ Calibration Linearity
_X_ Instrument Performance	_X_ Blank
_N/A_ DDT RT/12 Minutes?	_X_ Surrogate Recovery
_X_ Retention Time Window	_X_ MS/MSD
_X_ Analytical Sequence	_X_ Compound ID (HSL,TIC)
_X_ DDT/Endrin Degradation	_X_ Standards
_X_ RT Check for DBC	_X_ Chromatography

Comments:

1. Refer to Data Assessment Narrative.

OTHER ANALYTES WORK TABLE

Project Site Name: Cornell-Dubilier Site START PM: Michael Mahnkopf

Sampling Date: June 26 &27,1997 SAMPLE #/CONCENTRATION: Soil (µg/Kg)

PCS 1970 Polychlorinated Biphenyl Low Concentration	Soil CDE01 266311	Soil CDE02 266312	Soil CDE03 266313	Soil CDE04 266314	Soil CDE05 266315
Percent Solids	82	81	91	81	89
Dilution Factor	undiluted	undiluted	undiluted	undiluted	undiluted
Aroclor-1016	41 U	41 U	36 U	41 U	38U
Aroclor-1221	41U	41U	36U	41U	38U
Aroclor-1232	41 U	41 U	36U	41 U	38U
Aroclor-1242	41 U	41 U	36U	41 U	38U
Aroclor-1248	41U	41U	36U	41U	38U
Aroclor-1254	3600JN*	4800	R	R	220 JN
Aroclor-1260	41 U	41 U	36U	41 U	38 U

PCS 1970 Polychlorinated Biphenyl Low Concentration	Soil CDE06 266316	Soil CDE07 266317	Soil CDE08 266318	Soil CDE09 266319	Soil CDE10 266320
Percent Solids	90	87	86	88	94
Dilution Factor	undiluted	undiluted	undiluted	undiluted	undiluted
Aroclor-1016	36U	38U	39U	38U	35U
Aroclor-1221	36U	38U	39U	38U	35U
Aroclor-1232	36U	38U	39U	38U	35U
Aroclor-1242	36U	38U	39U	38U	35U
Aroclor-1248	36U	38U	39U	38U	35U
Aroclor-1254	R	2600J*	5700JN*	R	750 JN
Aroclor-1260	36U	38U	39U	38U	35U

*Data was transferred from a ten times diluted analysis

U - non-detected compound
* - Data transferred from a diluted analysis
J - estimated value
JN - The lowest quantitation of two columns confirming a pesticide and is considered to be presumptively present at an approximated quantity.
R - rejected compound

OTHER ANALYTES WORK TABLE

Project Site Name: Oornell-Dubilier Site START PM: Michael Mahnkopf

Sampling Date: June 26 &27,1997 SAMPLE #/CONCENTRATION: Soil (µg/Kg)

PCS 1970 Polychlorinated Biphenyl Low Concentration	Soil CDE11 266321	Soil CDE12 266322	Soil CDE13 266323	Soil CDE14 266324	Soil CDE15 266325
Percent Solids	86	93	87	80	91
Dilution Factor	undiluted	undiluted	undiluted	undiluted	undiluted
Aroclor-1016	39U	36U	38U	42U	37U
Aroclor-1221	39U	36U	38U	42U	37U
Aroclor-1232	39U	36U	38U	42U	37U
Aroclor-1242	39U	36U	38U	42U	37U
Aroclor-1248	39U	36U	38U	42U	37U
Aroclor-1254	280	R	370JN	700JN	2000J*
Aroclor-1260	39U	36U	38U	42U	37U

PCS 1970 Polychlorinated Biphenyl Low Concentration	Soil CDE16 266326	Soil CDE17 266327	Soil CDE18 266328	Soil CDE19 266329	Soil CDE20 266330
Percent Solids	91	95	92	95	87
Dilution Factor	undiluted	undiluted	undiluted	undiluted	undiluted
Aroclor-1016	36U	35U	36U	35U	38U
Aroclor-1221	36U	35U	36U	35U	38U
Aroclor-1232	36U	35U	36U	35U	38U
Aroclor-1242	36U	35U	36U	35U	38U
Aroclor-1248	36U	35U	36U	35U	38U
Aroclor-1254	170	190J	170	73JN	330JN
Aroclor-1260	36U	35U	36U	35U	38U

*Data was transferred from a ten times diluted analysis

U - non-detected compound
* - Data transferred from a diluted analysis
J - estimated value
JN- The lowest quantitation of two columns confirming a pesticide and is considered to be presumptively present at an approximated quantity.
R - rejected compound

Functional Guidelines for Evaluating Organic Analysis

CASE # 01970 **SDG # Groups #01** **LAB: ICM Labs**

SITE Cornell-Dubilier Site

The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

Reviewer's Signature: _____ **Date:** 8/4/1997

Verified By: _____ **Date:** __/__/19__

OTHER ANALYTES WORK TABLE

Project Site Name: Cornell-Dubilier Site START PM: Michael Mahnkopf

Sampling Date: June 26 &27,1997 SAMPLE #/CONCENTRATION: Soil (µg/Kg)

PCS 1970 Polychlorinated Biphenyl Low Concentration		Soil CDE21 266331				
Percent Solids		91				
Dilution Factor		undiluted				
Aroclor-1016		36U				
Aroclor-1221		36U				
Aroclor-1232		36U				
Aroclor-1242		36U				
Aroclor-1248		36U				
Aroclor-1254		R				
Aroclor-1260		36U				

PCS 1970 Polychlorinated Biphenyl Low Concentration						
Percent Solids						
Dilution Factor						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

U - non-detected compound
* - Data transferred from a diluted analysis
J - estimated value
JN - The lowest quantitation of two columns confirming a pesticide and is considered to be presumptively present at an approximated quantity.
R - rejected compound

Client identification (ID) and laboratory ID numbers:
The Cornel-Dubilier Electronics Site was sampled by START on 26 & 27 June, 1997. This sampling event, consisted of 23 soil samples, (including a field duplicate) and two MS/MSD sample volumes. The samples were supplied to ICM Laboratories. The laboratory verified on the Chain of Custody that samples were received intact and in good condition. The US EPA Region II START personnel were requested to provide data validation services for the completed laboratory data.

The grab samples were analyzed as SDG-01 Sample Delivery Groups (SDGs) for analysis by the laboratory.

26 June, 1997 Sample Collection - Samples

Client ID No	Laboratory ID No.	Matrix
SDG - 01 -		
CDE-001	266311	Soil
CDE-002	266312	Soil
CDE-003	266313	Soil
CDE-004	266314	Soil
CDE-005	266315	Soil
CDE-006	266316	Soil
CDE-007	266317	Soil
CDE-008	266318	Soil
CDE-009	266319	Soil
CDE-010	266320	Soil
CDE-011	266321	Soil
CDE-012	266322	Soil
CDE-013	266323	Soil
CDE-014	266324	Soil
CDE-015	266325	Soil
CDE-016	266326	Soil
CDE-017	266327	Soil
CDE-018	266328	Soil
CDE-019	266329	Soil
CDE-020	266330	Soil
CDE-021	266331	Soil

Sample CDE-05 was designated for MS/MSD. Sample CDE-02 is a field duplicate of CDE-01.

METHOD

The samples were analyzed for PCB only by the US EPA - SOW OLM03.2 method.

1. HOLDING TIMES:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

No sample analytes were qualified for holding time criteria.

2. BLANK CONTAMINATION:

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method Blank Contamination

No qualifications were required.

B) Field or Rinse Blank Contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

N/A.

C) Trip Blank Contamination

N/A

D) TIC Blank Contamination

N/A

3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error or missing, all associated data will be classified as unusable "R". The following samples shown were qualified with "R" because of tuning:

N/A

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

A) Response Factor:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOA/BNA Target Compound List (TCL) must be $\geq$ 0.05 in both the initial and continuing calibrations. A value $\leq$ 0.05 indicates a serious detection and quantitation problem (poor sensitivity). If the mean RRF of the initial calibration or the continuing calibration has a response factor < 0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated "J". All non-detects for those compounds will be rejected "R". The following analytes in the samples shown were qualified because of response factor:

Initial Calibration__

No qualifications were applied.

Continuing Calibration__

No qualifications were applied.

5. CALIBRATION:

B) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

No qualifications were applied.

Continuing Calibration

No qualifications were applied.

6. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recoveries:

Based on the dilutions required for analysis no qualifications were required.

7. INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to 100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ± 30 seconds from the associated continuing calibration standard. If the area count is outside the -50% to 100% range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated "J", and all non-detects as "UJ"only if the IS area is <50% Non-detects are qualified as "R" if there is a severe loss of sensitivity (<25% of associated IS area counts).

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgement to determine either partial or total rejection of the data for that sample fraction. The following analytes in the samples shown were qualified because of internal standard performance.

N/A

8. COMPOUND IDENTIFICATION:

A) VOLATILE AND SEMI-VOLATILE COMPOUNDS:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within +or- .06 RRT units of the standard compound and have an ion spectra which has a ratio of the primery and secondary m/e intensities within 20% of that in the standard comound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identification.

N/A

B) PESTICIDE COMPOUNDS:

The retention time of the reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract. The percent difference (%D) of the positive results obtained on the two GC columns would be $\leq$25%. The following analytes in the samples shown were qualified because of compound identification:

Analytes J qualified due to moderately poor column agreement (>25%D) as questionable
Aroclor 1254 in sample CDE-07DL,015DL, and 017

Analytes JN qualified for very poor column agreement (>50%D) (presumptive positive)
Aroclor 1254 in sample CDE-01DL, 05, 08DL, 010, 010DL, 013, 014, 015, 019, 020,

Analytes R qualified (Rejected) due to severely poor column agreement (>90%D)
Aroclor 1254 in sample CDE-001, 003, 004, 006, 007, 008, 009, 012, and 021

9. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

No qualifications were required for this parameter.

10. **OTHER QC DATA OUT OF SPECIFICATION:**

N/A

11. **SYSTEM PERFORMANCE AND OVERALL ASSESSMENT:**

N/A

12. **CONTRACT PROBLEMS____NON-COMPLIANCE:**

N/A

13. **This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used**

SDG - 01

Use sample data CDE-01, Do not use CDE-01DL*
Use sample data CDE-02, Do not use CDE-02DL
Use sample data CDE-07, Do not use CDE-07DL*
Use sample data CDE-08, Do not use CDE-08DL*
Use sample data CDE-10, Do not use CDE-10DL
Use sample data CDE-15, Do not use CDE-15DL*

* Note that the positive Analyte (Aroclor 1254 results) were transferred from the ten times dilution reanalysis. (See page 11- Compound Identification - Column Agreement)

1970

PO No.: 81623

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-5116 Fax: 908-225-7037

1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaiy, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS XRN	COR	REAC	OTHER
CDE-001	6/26/97 1205	5	L	G	6				X			266311			Total Pb, Cd
CDE-002	6/26/97 1205	5	L	G	6				X			266312			
CDE-003	6/26/97 1215	5	L	G	6				X			266313			
CDE-004	6/26/97 ~~1225~~ 1226	5	L	G	6				X			266314			
CDE-005	6/26/97 1238	5	L	G	6				X			266315			
CDE-005MS	6/26/97 1238	5	L	G	6				X			~~266316~~			
CDE-005MSD	6/26/97 1238	5	L	G	6				X			~~266317~~			
CDE-006	6/26/97 1256	5	L	G	6				X			266318			
CDE-007	6/26/97 1300	5	L	G	6				X			266319			
CDE-008	6/26/97 1310	5	L	G	6				X			266320			
CDE-009	6/26/97 1322	5	L	G	6				X			266321			

Comments:

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahikor	1130	6/27/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahikor	1545	6/27/97	[illegible]	Transfer to Lab
All	[illegible]	1850	6-27-97	Paul [illegible]	Receipt at lab 3.1°C

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

REP No.: 1970

PO No.: 81623

CHAIN OF CUSTODY RECORD

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KIN	COR	REAC	OTHER
CDE-010	6/26/97 1330	5	L	G	6				X			266	~~322~~	20	Total Pb, Cd
CDE-011	6/26/97 1337	5	L	G	6				X			266	~~323~~	21	
CDE-012	6/26/97 1402	5	L	G	6				X			266	~~324~~	22	
CDE-013	6/26/97 1414	5	L	G	6				X			266	~~325~~	23	
CDE-014	6/26/97 1430	5	L	G	6				X			266	~~326~~	24	
CDE-015	6/26/97 1440	5	L	G	6				X			266	~~327~~	25	
CDE-016	6/27/97 1000	5	L	G	6				X			266	~~328~~	26	
CDE-017	6/27/97 1007	5	L	G	6				X			266	327		
CDE-018	6/27/97 1040	5	L	G	6				X			266	328		
CDE-019	6/27/97 1055	5	L	G	6				X			266	329		
CDE-020	6/27/97 1110	5	L	G	6				X			266	330		

Comments:

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahnkopf	1130	6/27/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahnkopf	1545	6/27/97	[signature]	Transfer to Lab
ALL	[signature]	1850	6/27/97	[signature]	Receipt at lab 3.1°C
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

RFP No.: 1970

PO No.: 81623

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KIN	COR	REAC	OTHER
CDE-021	6/27/97 1115	5	L	G	6				X			266331			Total Pb, Cd

Comments:

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahkoff	1130	6/27/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahkoff	1545	6/27/97	[signature]	Tranfer to Lab
All	[signature]	1850	6-27-97	Paul [illegible]	Receipt at Lab. 3.1°C

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, New Jersey 07869
201-584-0330

SDG No. CDE-01

Samples: 266311 - 266331

NONCONFORMANCE SUMMARY

This project is only for PCB's, although the forms reflect pesticide results as undetected, they were not analyzed for and do not appear on the quanitation reports.

Pesticide/PCB:

1) Columns : a) J & W Scientific, DB608, 30m x 0.53 mm, 0.83 film thickness
b) J & W Scientific, DB1701, 30 m x 0.53 mm, 1.0 film thickness

2) Symbols used on Pesticide/PCB quantitation reports:

OW = Outside of retention window
NC = Not confirmed by secondary column
<CRQL = Less than Contract Required Quantitation Limit
<0.5 CRQL = Less than one half the Contract Required Quantitation Limit
NP = No Pattern present

3) The following compounds had Matrix Spike/Matrix Spike Duplicate recoveries outside QC limits, for sample CDE05: gamma-BHC (45 and 45%). For sample CDE04: gamma-BHC (42 and 45%). As per the SOW no further action was required.

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

Richard S. Levine (RC) 7/23/97

Richard S. Levine
President

Date

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE ID.

CDE01

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266311

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0666

% Moisture: 18. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	3600 ~~1900.~~	~~P~~ JN *
11096-82-5	Aroclor-1260	41.	U

Use this Data

data Transp[illegible] from diluted Analysis

FORM I PEST OLM03.0

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE01	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266311

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0745

Moisture: 18. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	20.	U
319-85-7	beta-BHC	20.	U
319-86-8	delta-BHC	20.	U
58-89-9	gamma-BHC (Lindane)	20.	U
76-44-8	Heptachlor	20.	U
309-00-2	Aldrin	20.	U
1024-57-3	Heptachlor epoxide	20.	U
959-98-8	Endosulfan I	20.	U
60-57-1	Dieldrin	41.	U
72-55-9	4,4'-DDE	41.	U
72-20-8	Endrin	41.	U
33213-65-9	Endosulfan II	41.	U
72-54-8	4,4'-DDD	41.	U
1031-07-8	Endosulfan Sulfate	41.	U
50-29-3	4,4'-DDT	41.	U
72-43-5	Methoxychlor	200.	U
53494-70-5	Endrin ketone	41.	U
7421-93-4	Endrin aldehyde	41.	U
5103-71-9	alpha-Chlordane	20.	U
5103-74-2	gamma-Chlordane	20.	U
8001-35-2	Toxaphene	2000.	U
12674-11-2	Aroclor-1016	410.	U
11104-28-2	Aroclor-1221	410.	U
11141-16-5	Aroclor-1232	410.	U
53469-21-9	Aroclor-1242	410.	U
12672-29-6	Aroclor-1248	410.	U
11097-69-1	Aroclor-1254	3600.	DP JN
11096-82-5	Aroclor-1260	410.	U

do Not use this Data

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE02

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266312

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0667

% Moisture: 19. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	4800.	
11096-82-5	Aroclor-1260	41.	U

Use this Data

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE02 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266312

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0744

% Moisture: 19. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	41.	U
319-85-7	beta-BHC	41.	U
319-86-8	delta-BHC	41.	U
58-89-9	gamma-BHC (Lindane)	41.	U
76-44-8	Heptachlor	41.	U
309-00-2	Aldrin	41.	U
1024-57-3	Heptachlor epoxide	41.	U
959-98-8	Endosulfan I	41.	U
60-57-1	Dieldrin	82.	U
72-55-9	4,4'-DDE	82.	U
72-20-8	Endrin	82.	U
33213-65-9	Endosulfan II	82.	U
72-54-8	4,4'-DDD	82.	U
1031-07-8	Endosulfan Sulfate	82.	U
50-29-3	4,4'-DDT	82.	U
72-43-5	Methoxychlor	410.	U
53494-70-5	Endrin ketone	82.	U
7421-93-4	Endrin aldehyde	82.	U
5103-71-9	alpha-Chlordane	41.	U
5103-74-2	gamma-Chlordane	41.	U
8001-35-2	Toxaphene	4100.	U
12674-11-2	Aroclor-1016	820.	U
11104-28-2	Aroclor-1221	820.	U
11141-16-5	Aroclor-1232	820.	U
53469-21-9	Aroclor-1242	820.	U
12672-29-6	Aroclor-1248	820.	U
11097-69-1	Aroclor-1254	8400.	D
11096-82-5	Aroclor-1260	820.	U

Do Not use this Data

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE03

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266313

Sample wt/vol: 30.3 (g/mL) G Lab File ID: CA0673

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	~~510.~~	R ~~P~~
11096-82-5	Aroclor-1260	36.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE04

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266314

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0658

% Moisture: 19. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/02/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	~~46.~~	~~J~~ R
11096-82-5	Aroclor-1260	41.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE05

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266315

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0738

% Moisture: 11. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	220.	JN p
11096-82-5	Aroclor-1260	38.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

CDE06

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266316

Sample wt/vol: 30.6 (g/mL) G Lab File ID: CA0669

% Moisture: 10. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	~~270.~~	RB
11096-82-5	Aroclor-1260	36.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE07

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266317

Sample wt/vol: 30.4 (g/mL) G Lab File ID: CA0670

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	2600 ~~1300~~.	J P
11096-82-5	Aroclor-1260	38.	U

* Data transferred from 10x dilution Analysis

Use this Data

FORM I PEST

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE07 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266317

Sample wt/vol: 30.4 (g/mL) G Lab File ID: CA0746

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19.	U
319-85-7	beta-BHC	19.	U
319-86-8	delta-BHC	19.	U
58-89-9	gamma-BHC (Lindane)	19.	U
76-44-8	Heptachlor	19.	U
309-00-2	Aldrin	19.	U
1024-57-3	Heptachlor epoxide	19.	U
959-98-8	Endosulfan I	19.	U
60-57-1	Dieldrin	38.	U
72-55-9	4,4'-DDE	38.	U
72-20-8	Endrin	38.	U
33213-65-9	Endosulfan II	38.	U
72-54-8	4,4'-DDD	38.	U
1031-07-8	Endosulfan Sulfate	38.	U
50-29-3	4,4'-DDT	38.	U
72-43-5	Methoxychlor	190.	U
53494-70-5	Endrin ketone	38.	U
7421-93-4	Endrin aldehyde	38.	U
5103-71-9	alpha-Chlordane	19.	U
5103-74-2	gamma-Chlordane	19.	U
8001-35-2	Toxaphene	1900.	U
12674-11-2	Aroclor-1016	380.	U
11104-28-2	Aroclor-1221	380.	U
11141-16-5	Aroclor-1232	380.	U
53469-21-9	Aroclor-1242	380.	U
12672-29-6	Aroclor-1248	380.	U
11097-69-1	Aroclor-1254	2600.	DP
11096-82-5	Aroclor-1260	380.	U

Do Not Use this Data

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266318

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0671

% Moisture: 14. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan Sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	~~2600~~ 5700.	JN P
11096-82-5	Aroclor-1260	39.	U

* Data Transfer From 10x Dil. Analysis

Use this Data

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE08	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266318

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0747

% Moisture: 14. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19.	U
319-85-7	beta-BHC	19.	U
319-86-8	delta-BHC	19.	U
58-89-9	gamma-BHC (Lindane)	19.	U
76-44-8	Heptachlor	19.	U
309-00-2	Aldrin	19.	U
1024-57-3	Heptachlor epoxide	19.	U
959-98-8	Endosulfan I	19.	U
60-57-1	Dieldrin	39.	U
72-55-9	4,4'-DDE	39.	U
72-20-8	Endrin	39.	U
33213-65-9	Endosulfan II	39.	U
72-54-8	4,4'-DDD	39.	U
1031-07-8	Endosulfan Sulfate	39.	U
50-29-3	4,4'-DDT	39.	U
72-43-5	Methoxychlor	190.	U
53494-70-5	Endrin ketone	39.	U
7421-93-4	Endrin aldehyde	39.	U
5103-71-9	alpha-Chlordane	19.	U
5103-74-2	gamma-Chlordane	19.	U
8001-35-2	Toxaphene	1900.	U
12674-11-2	Aroclor-1016	390.	U
11104-28-2	Aroclor-1221	390.	U
11141-16-5	Aroclor-1232	390.	U
53469-21-9	Aroclor-1242	390.	U
12672-29-6	Aroclor-1248	390.	U
11097-69-1	Aroclor-1254	5700.	DRJM
11096-82-5	Aroclor-1260	390.	U

Do Not Use this Data

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE09

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266319

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0672

% Moisture: 12. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/10/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	~~400.~~	R P
11096-82-5	Aroclor-1260	38.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266320

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0668

% Moisture: 6. decanted: (Y/N) N Date Received: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	750.	JN P
11096-82-5	Aroclor-1260	35.	U

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE10 DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266320

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0748

% Moisture: 6. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 4.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	18.	U
319-85-7	beta-BHC	18.	U
319-86-8	delta-BHC	18.	U
58-89-9	gamma-BHC (Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	35.	U
72-55-9	4,4'-DDE	35.	U
72-20-8	Endrin	35.	U
33213-65-9	Endosulfan II	35.	U
72-54-8	4,4'-DDD	35.	U
1031-07-8	Endosulfan Sulfate	35.	U
50-29-3	4,4'-DDT	35.	U
72-43-5	Methoxychlor	180.	U
53494-70-5	Endrin ketone	35.	U
7421-93-4	Endrin aldehyde	35.	U
5103-71-9	alpha-Chlordane	18.	U
5103-74-2	gamma-Chlordane	18.	U
8001-35-2	Toxaphene	1800.	U
12674-11-2	Aroclor-1016	350.	U
11104-28-2	Aroclor-1221	350.	U
11141-16-5	Aroclor-1232	350.	U
53469-21-9	Aroclor-1242	350.	U
12672-29-6	Aroclor-1248	350.	U
11097-69-1	Aroclor-1254	1000.	~~JNDP~~
11096-82-5	Aroclor-1260	350.	U

Do Not Use This Data

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266321

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0730

% Moisture: 14. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan Sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	280.	
11096-82-5	Aroclor-1260	39.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266322

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0737

% Moisture: 7. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	~~670.~~	~~P~~ ~~P~~
11096-82-5	Aroclor-1260	36.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE13

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266323

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0727

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	370.	JN P
11096-82-5	Aroclor-1260	38.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE14

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266324

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0731

% Moisture: 20. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan Sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210.	U
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	42.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	700.	JNP
11096-82-5	Aroclor-1260	42.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE15

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266325

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0728

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan Sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	~~2000~~ ~~1300~~.	~~X~~ P J *
11096-82-5	Aroclor-1260	37.	U

Data Transfer

Use this Data

From 10x dilution Analysis

FORM I PEST OLM03.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE15	DL

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266325

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0749

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	18.	U
319-85-7	beta-BHC	18.	U
319-86-8	delta-BHC	18.	U
58-89-9	gamma-BHC (Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	37.	U
72-55-9	4,4'-DDE	37.	U
72-20-8	Endrin	37.	U
33213-65-9	Endosulfan II	37.	U
72-54-8	4,4'-DDD	37.	U
1031-07-8	Endosulfan Sulfate	37.	U
50-29-3	4,4'-DDT	37.	U
72-43-5	Methoxychlor	180.	U
53494-70-5	Endrin ketone	37.	U
7421-93-4	Endrin aldehyde	37.	U
5103-71-9	alpha-Chlordane	18.	U
5103-74-2	gamma-Chlordane	18.	U
8001-35-2	Toxaphene	1800.	U
12674-11-2	Aroclor-1016	370.	U
11104-28-2	Aroclor-1221	370.	U
11141-16-5	Aroclor-1232	370.	U
53469-21-9	Aroclor-1242	370.	U
12672-29-6	Aroclor-1248	370.	U
11097-69-1	Aroclor-1254	2000.	~~J DP~~
11096-82-5	Aroclor-1260	370.	U

Do Not Use this Data

FORM I PEST OLM03.0

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE16

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266326

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CA0725

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	170.	
11096-82-5	Aroclor-1260	36.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE17

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266327

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0732

% Moisture: 5. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	190.	J P
11096-82-5	Aroclor-1260	35.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE18

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266328

Sample wt/vol: 30.0 (g/mL) G Lab File ID: CA0726

Moisture: 8. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	170.	
11096-82-5	Aroclor-1260	36.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE19

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266329

Sample wt/vol: 30.1 (g/mL) G Lab File ID: CA0724

% Moisture: 5. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan Sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	73.	JNP
11096-82-5	Aroclor-1260	35.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE20

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix: (soil/water) SOIL Lab Sample ID: 266330

Sample wt/vol: 30.4 (g/mL) G Lab File ID: CA0729

% Moisture: 13. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/14/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	330.	JN ~~P~~
11096-82-5	Aroclor-1260	38.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CDE21

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: CDE01

Matrix (soil/water) SOIL Lab Sample ID: 266331

Sample wt/vol: 30.1 (g/mL) G Lab File ID: CA0736

% Moisture: 9. decanted: (Y/N) N Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/01/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan Sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	~~660~~.	R
11096-82-5	Aroclor-1260	36.	U