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

211855

DATA QUALITY OBJECTIVE

DOCUMENT CONTROL NO.: START-02-F-01793
CORNELL DUBILIER ELECTRONICS
PROJECT NO.: 2523

SAMPLING DATE APRIL 23,1998
SDG NOs.: CDCC-001, CDDD-001, CDEE-001 & CDEE-021

REPORTED BY
ROY F. WESTON, INC.

REVIEVED BY: Zohreh Hamid

Zohreh Hamid, Ph.D.
Senior Chemist

6-8-98
Date

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, Inc., C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CORNELL DUBILIER ELECTRONICS
PROJECT NUMBER: 2523
DCN: START-02-F-01793
SAMPLING DATE 4-23-98

INTRODUCTION

This quality assurance review is based upon a review of all data generated from sixty-three soil samples, including four sets of field duplicates, and one rinsate blank, collected on 04-23-98. The samples were received on 04-24-98 by American Environmental Network (AEN) Laboratory, located in Cary, North Carolina. The samples were grouped in four different batches, and analyzed according to the criteria set forth in SW846 Method 8082, for Poly Chlorinated Biphenyl (PCB) target compounds.

The following soil samples are contained within this report:

CDCC-001 to CDCC -018
CDDD-001 to CDDD-020
CDEE -001 to CDEE -020
CDEE -021 to CDEE -025

One Rinsate Blank (RB-4) was analyzed with SDG Number CDEE-021.

Four sets of MS/MSD samples were analyzed on samples CDCC-001, CDDD-001, CDEE-014 & CDEE-022 for these samples.

All data have been validated with regard to usability according to USEPA Region II Functional Guidelines and the Quality Control criteria established in the applied Method. If you have any questions or comments on this data review, please call Zohreh Hamid at (610) 269-9989.

QUALITY ASSURANCE REVIEW

The findings offered in this report are based upon a review of the following criteria:

- Holding Times
- Calibrations
- Blanks
- Surrogate Recoveries
- Standards Recovery
- Matrix Spike/Spike Duplicate/Blank Spike Analyses
- Instrument Performance
- Field Duplicate Result
- Sample Results
- Data Completeness

HOLDING TIME

All samples were extracted/analyzed within the Region II requirements.

CALIBRATIONS

Aroclor-**1016** and Aroclor-**1260** were analyzed as continuing calibration. The %Ds were within the control limits of less than 15% in all standards with the exception of %Ds for four calibration standards analyzed on the secondary column (DB1701). The recovery met the control limit on column RTX-35, also; this compound was not detected in the samples. Therefore, the data were not qualified.

BLANK ANALYSIS

The preparation blanks, rinse blank, and calibration blanks were free of target compounds.

MATRIX SPIKE/SPIKE DUPLICATE ANALYSIS

The matrix spike/spike duplicate analyses were performed on samples CDCC-001, CDDD-001, CDEE-014 & CDEE-022. The recoveries for spike compound (Ar-1254) in spike sample CDCC-001 were within the control limits of 8-127%. However, no recovery (0.0%) was obtained for the other spike samples. The recovery outliers may be attributed to the high levels of aroclor-1254 and/or non-targeted compounds in the corresponding samples. Therefore, the data were not qualified based on this advisory limit.

The laboratory control sample recoveries were within 80-120%.

DUPLICATE ANALYSIS

Four duplicate sample analyses were performed on samples CDCC-001/018, CDDD-001/020, CDEE-014/024 & CDEE-022/025. The RPD for the positive results in samples CDCC-001 & CDCC-018 was within the control limit of < 50% for the soil sample analysis.

STANDARD RECOVERY

All external standard recoveries and retention times in the initial and continuing calibrations were within the control limits in the primary column.

SURROGATE RECOVERIES

The surrogate recoveries for TCX and DCB were within the control limits of 60-150% with the exception of the following:

Surrogate Recovery Outliers

Sample ID	TCX % Recovery	DCB % Recovery
CDCC-002	59	
CDCC-003		210
CDCC-004		202
CDCC-005		162
CDCC-006		157
CDCC-010	55	
CDCC-015		155
CDCC-017	59	
CDCC-013		348
CDCC-012		170
CDDD-001/MS/MSD		0D
CDDD-004	0D	0D
CDDD-007		0D
CDDD-008	0D	0D
CDDD-011	0D	0D
CDDD-014		156
CDDD-016	0D	0D
CDDD-017		156
CDDD-029	0D	0D
CDEE-001		151
CDEE-004	28	56
CDEE-007		237
CDEE-008		365
CDEE-009		260
CDEE-013		204
CDEE-017		202
PB812		50

D= Diluted out

The positive results for the samples with a high surrogate recovery were qualified estimated. The non-detected values were not qualified based on the above outliers, since the surrogate recoveries were above 10%.

SAMPLE RESULTS

The result and non-detected values for sample CDCC-010 were qualified estimated. Since this sample was inadvertently analyzed at a five-fold dilution, the reported data are considered biased low.

The non-detected value for aroclor-1254 in sample CDCC-013 was originally rejected. It is the validator's opinion that, one of the multi-peaks in the chromatogram was obscured by non-target compound. The laboratory recalculated the sample result and resubmitted. The result for this compound was qualified "E" by the laboratory due to the high concentration. This value was reported in the data validation summary and qualified estimated. The data reviewer was unable to evaluate this value since the corresponding calibration was not included.

The review of the sample chromatograms demonstrated a pattern of aroclor-1254 peaks. This compound was not reported on the most samples analyzed under SDG number CDDD-001. The non-detected values were qualified estimated.

Due to the sample background contamination, the positive results for samples analyzed under SDG numbers CDCC-001, CDDD-001, CDEE-001 & CDEE-021 were qualified estimated. The results were considered biased high because of the interference of non-target compound peak with one or two peaks in the aroclor-1254 pattern.

The result and the non-detected values for sample CDEE-011 were qualified estimated since the percent moisture exceeded 50%.

Most of the samples were analyzed at higher dilution due to the high levels of aroclor-1254 and/or non-target compounds. The sample results were not qualified for the samples analyzed up to 5-fold dilution. However, the results and non-detected values for aroclor-1254 were qualified estimated for the samples analyzed at above five-fold dilution.

DATA COMPLETENESS

The GPC, sulfuric acid/permanganate and/or florisil clean up was not performed, and the corresponding forms were not included in the data package.

Form X was not included in these data package. Also,the results from the secondary column were not calculated/reported.

The form VI-Pest 3 for the response factors of five point calibration analysis for aroclor-1260 performed on 10-6-97 was the same as the response factors listed for the analysis dated 5-5-98.

The data was not impacted, since the corrected form was found under SDG # CDDD-001 and included on Appendix D of this data review package.

The analysis time for aroclor-1242 listed on form VIII (20:35) did not match the time (20:30) listed on the chromatogram.

Page 208 for SDG # CDEE-001 is illegible.

The chromatogram for aroclor-1254C analyzed on 5-8-98 @ 2:44 on column DB1701 was missing.

The case narrative acknowledged the receipt of sixty-two (62) soil samples. However, sixty-three (63) samples were analyzed/reported.

Sample CDDD-014 had a surrogate outlier. This sample was not listed on the case narrative.

The data quality was not impacted by lack of the above documents/ information.

SUMMARY

The cooler temperature was within the control limits. The analysis data packages were not formatted based on the CLP data package deliverable. The results from the secondary column were not reported. The data for Aroclor-1254 for most samples were qualified estimated due to the sample background contamination. However, major problems were not encountered during the sample analyses. The minor issues have been discussed. The reported data were summarized on the data summary with the applied qualifier codes.

1. **Appendix A- Glossary of Data Qualifier**
2. **Appendix B- Data Summary Forms**
3. **Appendix C- Laboratory Results**
4. **Appendix D - Support Documentation**

Appendix A
Glossary of Data Qualifier

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GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

U = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS. [Substantially is equivalent to a result less than 10 times the blank level for common contaminants (methylene chloride, acetone and 2- butanone in the VOA analyses, and common phthalates in the BNA analyses, along with tentatively identified compounds) or less than 5 times the blank level for other target compounds.]

R = UNUSABLE RESULT. THE PRESENCE OR ABSENCE OF THIS ANALYTE CANNOT BE VERIFIED. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.

N = NEGATED COMPOUND. THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICCATION.

CODES RELATING TO QUATITATION

(can be used for both positive results and sample quantitation limits):

J = ANALYTE WAS POSITIVELY IDENTIFIED. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.

UJ = ANALYTE WAS NOT DETECTED. THE REPORTED QUATITATION LIMIT IS QUALIFIED ESTIMATED.

OTHER CODES

Q = NO ANALYTICAL RESULT.

Appendix B
Data Summary Forms

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDCC-001
Units: ug/kg

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #		CDCC -001	CDCC - 002	CDCC - 003	CDCC - 004	CDCC - 005	CDCC - 006	CDCC - 007	CDCC - 008	CDCC - 009
Lab ID #		L10483-001	L10483-002	L10483-003	L10483-004	L10483-005	L10483-006	L10483-007	L10483-008	L10483-009
Percent Moisture		23	21	21	19	22	22	22	23	24
Dilution Factor		1	1	1	2	5	5	5	2	5
PCB	MDL ug/kg									
Aroclor-1016	80	U	U	U	U	U	U	U	U	U
Aroclor-1221	80	U	U	U	U	U	U	U	U	U
Aroclor-1232	80	U	U	U	U	U	U	U	U	U
Aroclor-1242	80	U	U	U	U	U	U	U	U	U
Aroclor-1248	80	U	U	U	U	U	U	U	U	U
Aroclor-1254	160	940 J	1600 J	600 J	2200 J	1400 J	1200 J	1200 J	1700 J	1800 J
Aroclor-1260	160	U	U	U	U	U	U	U	U	U
Remark										

Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #		CDCC - 010	CDCC - 011	CDCC - 012	CDCC - 013	CDCC - 014	CDCC - 015	CDCC - 016	CDCC - 017	CDCC - 018
Lab ID #		L10483-010	L10483-011	L10483-012	L10483-013	L10483-014	L10483-015	L10483-016	L10483-017	L10483-018
Percent Moisture		27	22	22	17	23	22	22	23	23
Dilution Factor		5	5	2	1	1	2	2	2	2
PCB	MDL ug/kg									
Aroclor-1016	80	UJ	U	U	U	U	U	U	U	U
Aroclor-1221	80	UJ	U	U	U	U	U	U	U	U
Aroclor-1232	80	UJ	U	U	U	U	U	U	U	U
Aroclor-1242	80	UJ	U	U	U	U	U	U	U	U
Aroclor-1248	80	UJ	U	U	U	U	U	U	U	U
Aroclor-1254	160	1000 J	1300 J	2500 J	2400 J	800 J	1000 J	1100 J	1600 J	900 J
Aroclor-1260	160	UJ	U	U	U	U	U	U	U	U
Remark										Field Dup

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDDD-001
Units: ug/kg

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #		CDDD -001	CDDD - 002	CDDD - 003	CDDD - 004	CDDD - 005	CDDD - 006	CDDD - 007	CDDD - 008	CDDD - 009
Lab ID #		L10486-001	L10486-002	L10486-003	L10486-004	L10486-005	L10486-006	L10486-007	L10486-008	L10486-009
Percent Moisture		24	24	25	24	30	23	27	22	26
Dilution Factor		10	5	5	50	5	5	10	50	5
PCB	MDL ug/kg									
Aroclor-1016	80	U	U	U	U	U	U	U	U	U
Aroclor-1221	80	U	U	U	U	U	U	U	U	U
Aroclor-1232	80	U	U	U	U	U	U	U	U	U
Aroclor-1242	80	U	U	U	U	U	U	U	U	U
Aroclor-1248	80	U	U	U	U	U	U	U	U	U
Aroclor-1254	160	UJ	UJ	UJ	60000 J	4600 J	UJ	UJ	UJ	UJ
Aroclor-1260	160	U	U	U	U	U	U	U	U	U
Remark										

Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #		CDDD - 010	CDDD - 011	CDDD - 012	CDDD - 013	CDDD - 014	CDDD - 015	CDDD - 016	CDDD - 017	CDDD - 018
Lab ID #		L10486-010	L10486-011	L10486-012	L10486-013	L10486-014	L10486-015	L10486-016	L10486-017	L10486-018
Percent Moisture		22	21	10	21	21	27	21	24	26
Dilution Factor		5	50	1	10	5	5	20	5	5
PCB	MDL ug/kg									
Aroclor-1016	80	U	U	U	U	U	U	U	U	U
Aroclor-1221	80	U	U	U	U	U	U	U	U	U
Aroclor-1232	80	U	U	U	U	U	U	U	U	U
Aroclor-1242	80	U	U	U	U	U	U	U	U	U
Aroclor-1248	80	U	U	U	U	U	U	U	U	U
Aroclor-1254	160	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ
Aroclor-1260	160	U	U	U	U	U	U	U	U	U
Remark										

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDDD-001
Units: ug/kg

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Soil	Soil							
Client ID #		CDDD - 019	CDDD - 020							
Lab ID #		L10486-019	L10486-020							
Percent Moisture		22	24							
Dilution Factor		1	20							
PCB	MDL ug/kg									
Aroclor-1016	80	U	U							
Aroclor-1221	80	U	U							
Aroclor-1232	80	U	U							
Aroclor-1242	80	U	U							
Aroclor-1248	80	U	U							
Aroclor-1254	160	1400 J	UJ							
Aroclor-1260	160	U	U							
Remark			Field Dup							

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDEE-001
Units: ug/kg

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #		CDEE -001	CDEE - 002	CDEE - 003	CDEE - 004	CDEE - 005	CDEE - 006	CDEE - 007	CDEE - 008	CDEE - 009
Lab ID #		L10488-001	L10488-002	L10488-003	L10488-004	L10488-005	L10488-006	L10488-007	L10488-008	L10488-009
Percent Moisture		20	12	16	17	15	22	39	24	21
Dilution Factor		1	1	1	1	1	1	1	1	1
PCB	MDL ug/kg									
Aroclor-1016	80	U	U	U	U	U	U	U	U	U
Aroclor-1221	80	U	U	U	U	U	U	U	U	U
Aroclor-1232	80	U	U	U	U	U	U	U	U	U
Aroclor-1242	80	U	U	U	U	U	U	U	U	U
Aroclor-1248	80	U	U	U	U	U	U	U	U	U
Aroclor-1254	160	U	U	U	U	U	830 J	1500 J	1300 J	1100 J
Aroclor-1260	160	U	U	U	U	U	U	U	U	U
Remark										

Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #		CDEE - 010	CDEE - 011	CDEE - 012	CDEE - 013	CDEE - 014	CDEE - 015	CDEE - 016	CDEE - 017	CDEE - 018
Lab ID #		L10488-010	L10488-011	L10488-012	L10488-013	L10488-014	L10488-015	L10488-016	L10488-017	L10488-018
Percent Moisture		16	52	18	1	16	25	14	26	26
Dilution Factor		1	1	1	1	1	1	1	1	1
PCB	MDL ug/kg									
Aroclor-1016	80	U	UJ	U	U	U	U	U	U	U
Aroclor-1221	80	U	UJ	U	U	U	U	U	U	U
Aroclor-1232	80	U	UJ	U	U	U	U	U	U	U
Aroclor-1242	80	U	UJ	U	U	U	U	U	U	U
Aroclor-1248	80	U	UJ	U	U	U	U	U	U	U
Aroclor-1254	160	U	UJ	U	330 J	U	U	U	U	850 J
Aroclor-1260	160	U	UJ	U	U	U	U	U	U	U
Remark										

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDEE-001
Units: ug/kg

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Soil	Soil							
Client ID #		CDEE - 019	CDEE - 020							
Lab ID #		L10488-019	L10488-020							
Percent Moisture		20	19							
Dilution Factor		1	1							
PCB	MDL ug/kg									
Aroclor-1016	80	U	U							
Aroclor-1221	80	U	U							
Aroclor-1232	80	U	U							
Aroclor-1242	80	U	U							
Aroclor-1248	80	U	U							
Aroclor-1254	160	510 J	260 J							
Aroclor-1260	160	U	U							
Remark										

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDEE-021
Units: ug/kg

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Soil	Soil	Soil	Soil	Soil				
Client ID #		CDEE -021	CDEE - 022	CDEE - 023	CDEE - 024	CDEE - 025				
Lab ID #		L10489-021	L10489-022	L10489-023	L10489-024	L10489-025				
Percent Moisture		18	20	22	18	20				
Dilution Factor		1	1	1	5	1				
PCB	MDL ug/kg									
Aroclor-1016	80	U	U	U	U	U				
Aroclor-1221	80	U	U	U	U	U				
Aroclor-1232	80	U	U	U	U	U				
Aroclor-1242	80	U	U	U	U	U				
Aroclor-1248	80	U	U	U	U	U				
Aroclor-1254	160	540 J	U	300 J	U	U				
Aroclor-1260	160	U	U	U	U	U				
Remark					Duplicate	Duplicate				

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: IEA
Case No.: 2523
SDG No.: CDEE-021
Units: ug/l

Sampling Date: April 23, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01793

Matrix		Water								
Client ID #		RB-4								
Lab ID #		L10489-006								
Percent Moisture										
Dilution Factor		1								
PCB	MDL ug/L									
Aroclor-1016	0.50	U								
Aroclor-1221	0.50	U								
Aroclor-1232	0.50	U								
Aroclor-1242	0.50	U								
Aroclor-1248	0.50	U								
Aroclor-1254	1.0	U								
Aroclor-1260	1.0	U								
Remark		Reagent Blk.								

Appendix C
Laboratory Reported Result

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-001

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-001

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_005.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	940	J
11096-82-5	Aroclor-1260	210	U

1D

SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-002

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-002

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_008.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	1600	J
11096-82-5	Aroclor-1260	200	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-003

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_009.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	600	J
11096-82-5	Aroclor-1260	200	U

1D

SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-004

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_010.D

% Moisture: 19 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	2200	J
11096-82-5	Aroclor-1260	390	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-005

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-005

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_011.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	510	U
11104-28-2	Aroclor-1221	510	U
11141-16-5	Aroclor-1232	510	U
53469-21-9	Aroclor-1242	510	U
12672-29-6	Aroclor-1248	510	U
11097-69-1	Aroclor-1254	1400	J
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-006

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_012.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	510	U
11104-28-2	Aroclor-1221	510	U
11141-16-5	Aroclor-1232	510	U
53469-21-9	Aroclor-1242	510	U
12672-29-6	Aroclor-1248	510	U
11097-69-1	Aroclor-1254	1200	J
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-007

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-007

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_015.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	510	U
11104-28-2	Aroclor-1221	510	U
11141-16-5	Aroclor-1232	510	U
53469-21-9	Aroclor-1242	510	U
12672-29-6	Aroclor-1248	510	U
11097-69-1	Aroclor-1254	1200	J
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-008

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-008

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_016.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	1700	J
11096-82-5	Aroclor-1260	410	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-009

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_017.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	520	U
11104-28-2	Aroclor-1221	520	U
11141-16-5	Aroclor-1232	520	U
53469-21-9	Aroclor-1242	520	U
12672-29-6	Aroclor-1248	520	U
11097-69-1	Aroclor-1254	1800	J
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-010

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-010

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_018.D

% Moisture: 27 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	540	U	UJ
11104-28-2	Aroclor-1221	540	U	UJ
11141-16-5	Aroclor-1232	540	U	UJ
53469-21-9	Aroclor-1242	540	U	UJ
12672-29-6	Aroclor-1248	540	U	UJ
11097-69-1	Aroclor-1254	1000	J	J
11096-82-5	Aroclor-1260	1100	U	UJ

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-011

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-011

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_019.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	510	U
11104-28-2	Aroclor-1221	510	U
11141-16-5	Aroclor-1232	510	U
53469-21-9	Aroclor-1242	510	U
12672-29-6	Aroclor-1248	510	U
11097-69-1	Aroclor-1254	1300	J
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-012

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-012

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_020.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	2500	J
11096-82-5	Aroclor-1260	390	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-013

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-013

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_021.D

% Moisture: 17 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/30/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	2400E ~~190~~	(J) ~~U~~ 4/7/14/98
11096-82-5	Aroclor-1260	190	U

J Can not evaluate, since the calibration was not included

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-014

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-014

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050198_024.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/02/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	800	
11096-82-5	Aroclor-1260	210	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-015

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-015

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA043098_023.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/01/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	1000	J
11096-82-5	Aroclor-1260	410	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-016

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-016

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050498_037.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/05/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	1100	J
11096-82-5	Aroclor-1260	410	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-017

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-017

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_026.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/01/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	1600	J
11096-82-5	Aroclor-1260	410	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-018

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-018

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA050498_038.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/05/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	900	J
11096-82-5	Aroclor-1260	390	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-001

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-001

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_011.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	1000	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	1000	U
53469-21-9	Aroclor-1242	1000	U
12672-29-6	Aroclor-1248	1000	U
11097-69-1	Aroclor-1254	2100	U
11096-82-5	Aroclor-1260	2100	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-016

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-016

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050498_037.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/05/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	1100	J
11096-82-5	Aroclor-1260	410	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDCC-017

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix: (soil/water) SOIL Lab Sample ID: L10483-017

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA043098_026.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/01/98

Injection Volume: 1.0(uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	1600	J
11096-82-5	Aroclor-1260	410	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-002

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050698_015.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/06/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	520	U
11104-28-2	Aroclor-1221	520	U
11141-16-5	Aroclor-1232	520	U
53469-21-9	Aroclor-1242	520	U
12672-29-6	Aroclor-1248	520	U
11097-69-1	Aroclor-1254	1000	U
11096-82-5	Aroclor-1260	1000	U

vJ

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-003

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PA050698_016.D

% Moisture: 25 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/06/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	530	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	530	U
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	1100	U vJ
11096-82-5	Aroclor-1260	1100	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-004

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_025.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	5200	U
11104-28-2	Aroclor-1221	5200	U
11141-16-5	Aroclor-1232	5200	U
53469-21-9	Aroclor-1242	5200	U
12672-29-6	Aroclor-1248	5200	U
11097-69-1	Aroclor-1254	60000	J
11096-82-5	Aroclor-1260	10000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-005

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-005

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050698_018.D

% Moisture: 30 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/06/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	570	U
11104-28-2	Aroclor-1221	570	U
11141-16-5	Aroclor-1232	570	U
53469-21-9	Aroclor-1242	570	U
12672-29-6	Aroclor-1248	570	U
11097-69-1	Aroclor-1254	4600	J
11096-82-5	Aroclor-1260	1100	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-006

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-006

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA050698_021.D

% Moisture: 23 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/06/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	520	U	
11104-28-2	Aroclor-1221	520	U	
11141-16-5	Aroclor-1232	520	U	
53469-21-9	Aroclor-1242	520	U	
12672-29-6	Aroclor-1248	520	U	
11097-69-1	Aroclor-1254	1000	U	UJ
11096-82-5	Aroclor-1260	1000	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-007

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-007

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_013.D

% Moisture: 27 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	1100	U	
11104-28-2	Aroclor-1221	1100	U	
11141-16-5	Aroclor-1232	1100	U	
53469-21-9	Aroclor-1242	1100	U	
12672-29-6	Aroclor-1248	1100	U	
11097-69-1	Aroclor-1254	2200	U	UJ
11096-82-5	Aroclor-1260	2200	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-008

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-008

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA050798_014.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	5100	U	
11104-28-2	Aroclor-1221	5100	U	
11141-16-5	Aroclor-1232	5100	U	
53469-21-9	Aroclor-1242	5100	U	
12672-29-6	Aroclor-1248	5100	U	
11097-69-1	Aroclor-1254	10000	U	UJ
11096-82-5	Aroclor-1260	10000	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-009

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA050698_024.D

% Moisture: 26 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	540	U	
11104-28-2	Aroclor-1221	540	U	
11141-16-5	Aroclor-1232	540	U	
53469-21-9	Aroclor-1242	540	U	
12672-29-6	Aroclor-1248	540	U	
11097-69-1	Aroclor-1254	1100	U	UJ
11096-82-5	Aroclor-1260	1100	U	

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CLIENT SAMPLE NO.

CDDD-010

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-010

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050698_025.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	510	U	
11104-28-2	Aroclor-1221	510	U	
11141-16-5	Aroclor-1232	510	U	
53469-21-9	Aroclor-1242	510	U	
12672-29-6	Aroclor-1248	510	U	
11097-69-1	Aroclor-1254	1000	U	VJ
11096-82-5	Aroclor-1260	1000	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-011

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-011

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_015.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	5000	U
11104-28-2	Aroclor-1221	5000	U
11141-16-5	Aroclor-1232	5000	U
53469-21-9	Aroclor-1242	5000	U
12672-29-6	Aroclor-1248	5000	U
11097-69-1	Aroclor-1254	10000	U UJ
11096-82-5	Aroclor-1260	10000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-012

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-012

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA050798-016.D

% Moisture: 10 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	88	U	
11104-28-2	Aroclor-1221	88	U	
11141-16-5	Aroclor-1232	88	U	
53469-21-9	Aroclor-1242	88	U	
12672-29-6	Aroclor-1248	88	U	
11097-69-1	Aroclor-1254	180	U	UJ
11096-82-5	Aroclor-1260	180	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-013

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-013

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_017.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	1000	U	
11104-28-2	Aroclor-1221	1000	U	
11141-16-5	Aroclor-1232	1000	U	
53469-21-9	Aroclor-1242	1000	U	
12672-29-6	Aroclor-1248	1000	U	
11097-69-1	Aroclor-1254	2000	U	UJ
11096-82-5	Aroclor-1260	2000	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-014

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-014

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PA050698_029.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	500	U
11104-28-2	Aroclor-1221	500	U
11141-16-5	Aroclor-1232	500	U
53469-21-9	Aroclor-1242	500	U
12672-29-6	Aroclor-1248	500	U
11097-69-1	Aroclor-1254	1000	U UJ
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-015

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-015

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050698_030.D

% Moisture: 27 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	550	U
11104-28-2	Aroclor-1221	550	U
11141-16-5	Aroclor-1232	550	U
53469-21-9	Aroclor-1242	550	U
12672-29-6	Aroclor-1248	550	U
11097-69-1	Aroclor-1254	1100	U VJ
11096-82-5	Aroclor-1260	1100	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-016

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-016

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_018.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	2000	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	2000	U
53469-21-9	Aroclor-1242	2000	U
12672-29-6	Aroclor-1248	2000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	4000	U

VJ

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-017

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-017

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PA050698_034.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	530	U
11104-28-2	Aroclor-1221	530	U
11141-16-5	Aroclor-1232	530	U
53469-21-9	Aroclor-1242	530	U
12672-29-6	Aroclor-1248	530	U
11097-69-1	Aroclor-1254	1000	U UJ
11096-82-5	Aroclor-1260	1000	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-018

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-018

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050698_035.D

% Moisture: 26 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	540	U	
11104-28-2	Aroclor-1221	540	U	
11141-16-5	Aroclor-1232	540	U	
53469-21-9	Aroclor-1242	540	U	
12672-29-6	Aroclor-1248	540	U	
11097-69-1	Aroclor-1254	1100	U	UJ
11096-82-5	Aroclor-1260	1100	U	

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-019

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-019

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PA050798_021.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	1400	J
11096-82-5	Aroclor-1260	200	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDDD-020

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix: (soil/water) SOIL Lab Sample ID: L10486-020

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PA050798_022.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 20.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
12674-11-2	Aroclor-1016	2100	U	
11104-28-2	Aroclor-1221	2100	U	
11141-16-5	Aroclor-1232	2100	U	
53469-21-9	Aroclor-1242	2100	U	
12672-29-6	Aroclor-1248	2100	U	
11097-69-1	Aroclor-1254	4200	U	UJ
11096-82-5	Aroclor-1260	4200	U	

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CLIENT SAMPLE NO.

CDEE-001

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-001

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PB050798_001.D

% Moisture: 20 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	99	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	99	U
53469-21-9	Aroclor-1242	99	U
12672-29-6	Aroclor-1248	99	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-002

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_002.D

% Moisture: 12 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	91	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	91	U
53469-21-9	Aroclor-1242	91	U
12672-29-6	Aroclor-1248	91	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-003

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_003.D

% Moisture: 16 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	95	U
11104-28-2	Aroclor-1221	95	U
11141-16-5	Aroclor-1232	95	U
53469-21-9	Aroclor-1242	95	U
12672-29-6	Aroclor-1248	95	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-004

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_004.D

% Moisture: 17 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-005

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_005.D

% Moisture: 15 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	94	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	94	U
53469-21-9	Aroclor-1242	94	U
12672-29-6	Aroclor-1248	94	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-006

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-006

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_006.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	830	J
11096-82-5	Aroclor-1260	200	U

1D

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CLIENT SAMPLE NO.

CDEE-007

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-007

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_007.D

% Moisture: 39 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	1500	J
11096-82-5	Aroclor-1260	260	U

1D

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CLIENT SAMPLE NO.

CDEE-008

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-008

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PB050798_008.D

% Moisture: 24 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	1300	J
11096-82-5	Aroclor-1260	210	U

1D

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CLIENT SAMPLE NO.

CDEE-009

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PB050698_013.D

% Moisture: 21 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2------	Aroclor-1016	100	U
11104-28-2------	Aroclor-1221	100	U
11141-16-5------	Aroclor-1232	100	U
53469-21-9------	Aroclor-1242	100	U
12672-29-6------	Aroclor-1248	100	U
11097-69-1------	Aroclor-1254	1100	J
11096-82-5------	Aroclor-1260	200	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-010

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-010

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_009.D

% Moisture: 16 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	95	U
11104-28-2	Aroclor-1221	95	U
11141-16-5	Aroclor-1232	95	U
53469-21-9	Aroclor-1242	95	U
12672-29-6	Aroclor-1248	95	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

1D

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CLIENT SAMPLE NO.

CDEE-011

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-011

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PB050798_010.D

% Moisture: 52 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	330	U
11096-82-5	Aroclor-1260	330	U

US

High level of % moisture

1D

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CLIENT SAMPLE NO.

CDEE-012

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-012

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_013.D

% Moisture: 18 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	98	U
11104-28-2	Aroclor-1221	98	U
11141-16-5	Aroclor-1232	98	U
53469-21-9	Aroclor-1242	98	U
12672-29-6	Aroclor-1248	98	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

1D

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CLIENT SAMPLE NO.

CDEE-013

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-013

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PB050798_014.D

% Moisture: 17 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	330	J
11096-82-5	Aroclor-1260	190	U

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SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-014

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-014

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050698_020.D

% Moisture: 16 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/06/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2------	Aroclor-1016	95	U
11104-28-2------	Aroclor-1221	95	U
11141-16-5------	Aroclor-1232	95	U
53469-21-9------	Aroclor-1242	95	U
12672-29-6------	Aroclor-1248	95	U
11097-69-1------	Aroclor-1254	190	U
11096-82-5------	Aroclor-1260	190	U

1D

SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-015

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-015

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_015.D

% Moisture: 25 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	U

1D

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CLIENT SAMPLE NO.

CDEE-016

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-016

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_016.D

% Moisture: 14 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	93	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	93	U
53469-21-9	Aroclor-1242	93	U
12672-29-6	Aroclor-1248	93	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

1D

SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-017

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-017

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_017.D

% Moisture: 26 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2------	Aroclor-1016	110	U
11104-28-2------	Aroclor-1221	110	U
11141-16-5------	Aroclor-1232	110	U
53469-21-9------	Aroclor-1242	110	U
12672-29-6------	Aroclor-1248	110	U
11097-69-1------	Aroclor-1254	220	U
11096-82-5------	Aroclor-1260	220	U

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CLIENT SAMPLE NO.

CDEE-018

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-018

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_018.D

% Moisture: 26 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2------	Aroclor-1016	110	U
11104-28-2------	Aroclor-1221	110	U
11141-16-5------	Aroclor-1232	110	U
53469-21-9------	Aroclor-1242	110	U
12672-29-6------	Aroclor-1248	110	U
11097-69-1------	Aroclor-1254	850	J
11096-82-5------	Aroclor-1260	220	U

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CLIENT SAMPLE NO.

CDEE-019

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-019

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_019.D

% Moisture: 20 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	510	J
11096-82-5	Aroclor-1260	200	U

1D

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CLIENT SAMPLE NO.

CDEE-020

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix: (soil/water) SOIL Lab Sample ID: L10488-020

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050798_020.D

% Moisture: 19 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/07/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	99	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	99	U
53469-21-9	Aroclor-1242	99	U
12672-29-6	Aroclor-1248	99	U
11097-69-1	Aroclor-1254	260	J
11096-82-5	Aroclor-1260	200	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-021

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix: (soil/water) SOIL Lab Sample ID: L10489-001

Sample wt/vol: 30.2 (g/mL) G Lab File ID: PB050898_004.D

% Moisture: 18 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	97	U
11104-28-2	Aroclor-1221	97	U
11141-16-5	Aroclor-1232	97	U
53469-21-9	Aroclor-1242	97	U
12672-29-6	Aroclor-1248	97	U
11097-69-1	Aroclor-1254	540	J
11096-82-5	Aroclor-1260	190	U

1D

SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-022

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix: (soil/water) SOIL Lab Sample ID: L10489-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050898_003.D

% Moisture: 20 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-023

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix: (soil/water) SOIL Lab Sample ID: L10489-003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050898_005.D

% Moisture: 22 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	300	J
11096-82-5	Aroclor-1260	200	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-024

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix: (soil/water) SOIL Lab Sample ID: L10489-004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: PB050798_036.D

% Moisture: 18 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	490	U
11104-28-2	Aroclor-1221	490	U
11141-16-5	Aroclor-1232	490	U
53469-21-9	Aroclor-1242	490	U
12672-29-6	Aroclor-1248	490	U
11097-69-1	Aroclor-1254	970	U
11096-82-5	Aroclor-1260	970	U

1D
SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CDEE-025

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix: (soil/water) SOIL Lab Sample ID: L10489-005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: PB050898_006.D

% Moisture: 20 decanted: (Y/N) N Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/27/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/08/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

1D

SW-846 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RB-4

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix: (soil/water) WATER Lab Sample ID: L10489-006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: PB050598_005.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 04/24/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/28/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 05/05/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2------	Aroclor-1016	0.50	U
11104-28-2------	Aroclor-1221	0.50	U
11141-16-5------	Aroclor-1232	0.50	U
53469-21-9------	Aroclor-1242	0.50	U
12672-29-6------	Aroclor-1248	0.50	U
11097-69-1------	Aroclor-1254	1.0	U
11096-82-5------	Aroclor-1260	1.0	U

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Appendix D
Support Documentation

2F
SW-846 SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

GC Column(1): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	DCB 2 %REC #	TOT OUT
01	CDCC-001	72	99	0
02	CDCC-001MS	76	115	0
03	CDCC-001MSD	74	109	0
04	CDCC-002	59*	130	1
05	CDCC-003	67	210*	1
06	CDCC-004	67	202*	1
07	CDCC-005	68	162*	1
08	CDCC-006	72	157*	1
09	CDCC-007	60	119	0
10	CDCC-008	67	112	0
11	CDCC-010	55*	130	1
12	CDCC-015	69	155*	1
13	CDCC-016	88	115	0
14	CDCC-017	59*	111	0
15	CDCC-009	68	150	0
16	CDCC-013	69	348*	1
17	CDCC-014	69	123	0
18	CDCC-018	87	113	0
19	CDCC-011	69	120	0
20	CDCC-012	92	170*	1
21	LCS809	61	97	1
22	PB809	68	105	0
23				
24				
25				
26				
27				
28				
29				
30				

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

FORM II PEST-2

3/90

F3 C01

2F
SW-846 SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

GC Column(1): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	DCB 2 %REC #	TOT OUT
01	CDDD-001	83	0D	0
02	CDDD-001MS	80	0D	0
03	CDDD-001MSD	89	0D	0
04	CDDD-002	79	89	0
05	CDDD-003	84	103	0
06	CDDD-004	0D	0D	0
07	CDDD-005	114	133	0
08	CDDD-006	92	111	0
09	CDDD-007	90	0D	0
10	CDDD-008	0D	0D	0
11	CDDD-009	74	100	0
12	CDDD-010	93	111	0
13	CDDD-011	0D	0D	0
14	CDDD-012	90	115	0
15	CDDD-013	94	133	0
16	CDDD-014	90	156*	1
17	CDDD-015	90	138	0
18	CDDD-016	0D	0D	0
19	CDDD-017	98	156*	1
20	CDDD-018	97	145	0
21	CDDD-019	94	147	0
22	CDDD-020	0D	0D	0
23	LCS811	80	86	0
24	PB811	75	82	0
25				
26				
27				
28				
29				
30				

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2F
SW-846 SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

	CLIENT SAMPLE NO.	TCX 1 %REC #	DCB 2 %REC #	TOT OUT
01	CDEE-001	98	151*	1
02	CDEE-002	100	124	0
03	CDEE-003	100	127	0
04	CDEE-004	28*	56*	2
05	CDEE-005	84	90	0
06	CDEE-006	94	119	0
07	CDEE-007	93	237*	1
08	CDEE-008	96	365*	1
09	CDEE-009	93	260*	1
10	CDEE-010	99	139	0
11	CDEE-011	77	92	0
12	CDEE-012	115	127	0
13	CDEE-013	96	204*	1
14	CDEE-014	88	117	0
15	CDEE-014MS	94	90	0
16	CDEE-014MSD	97	116	0
17	CDEE-015	98	90	0
18	CDEE-016	99	108	0
19	CDEE-017	74	202*	1
20	CDEE-018	99	143	0
21	CDEE-019	96	116	0
22	CDEE-020	99	112	0
23	LCS812	102	92	0
24	PB812	100	50*	1
25				
26				
27				
28				
29				
30				

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

3 001

FORM II PEST-2 Rev 2.0 2/96

2F
SW-846 SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

GC Column(1): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	DCB 2 %REC #	TOT OUT
01	CDEE-021	102	147	0
02	CDEE-022	104	118	0
03	CDEE-022MS	90	121	0
04	CDEE-022MSD	97	107	0
05	CDEE-023	100	126	0
06	CDEE-024	87	83	0
07	CDEE-025	101	113	0
08	LCS810	105	104	0
09	PB810	105	97	0
10				
11				
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19				
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22				
23				
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25				
26				
27				
28				
29				
30				

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2E
SW -846 WATER PESTICIDE SURROGATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

GC Column(1): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	DCB 2 %REC #	TOT OUT
01	PB814	92	100	0
02	RB-4	105	97	0
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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27				
28				
29				
30				

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

SW-846 SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Matrix Spike - Client Sample No.: CDCC-001

Matrix Spike Recovery

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	430	940	1300	84	8-127

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	QC LIMITS REC.
Aroclor-1254	430	1300	84	8-127

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

3F

SW-846 SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Matrix Spike - Client Sample No.: CDDD-001

Matrix Spike Recovery

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1260	440	0.0	0.0	0*	8-127

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	QC LIMITS REC.
Aroclor-1260	440	0.0	0*	8-127

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS:

3F

SW-846 SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE001

Matrix Spike - Client Sample No.: CDEE-014

Matrix Spike Recovery

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	400	0.0	0.0	0*	8-127

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	QC LIMITS REC.
Aroclor-1254	400	0.0	0*	8-127

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS:

3F

SW-846 SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYSTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDEE021

Matrix Spike - Client Sample No.: CDEE-022

Matrix Spike Recovery

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	420	0.0	0.0	0*	8-127

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	QC LIMITS REC.
Aroclor-1254	420	0.0	0*	8-127

Column to be used to flag recovery values with an asterisk

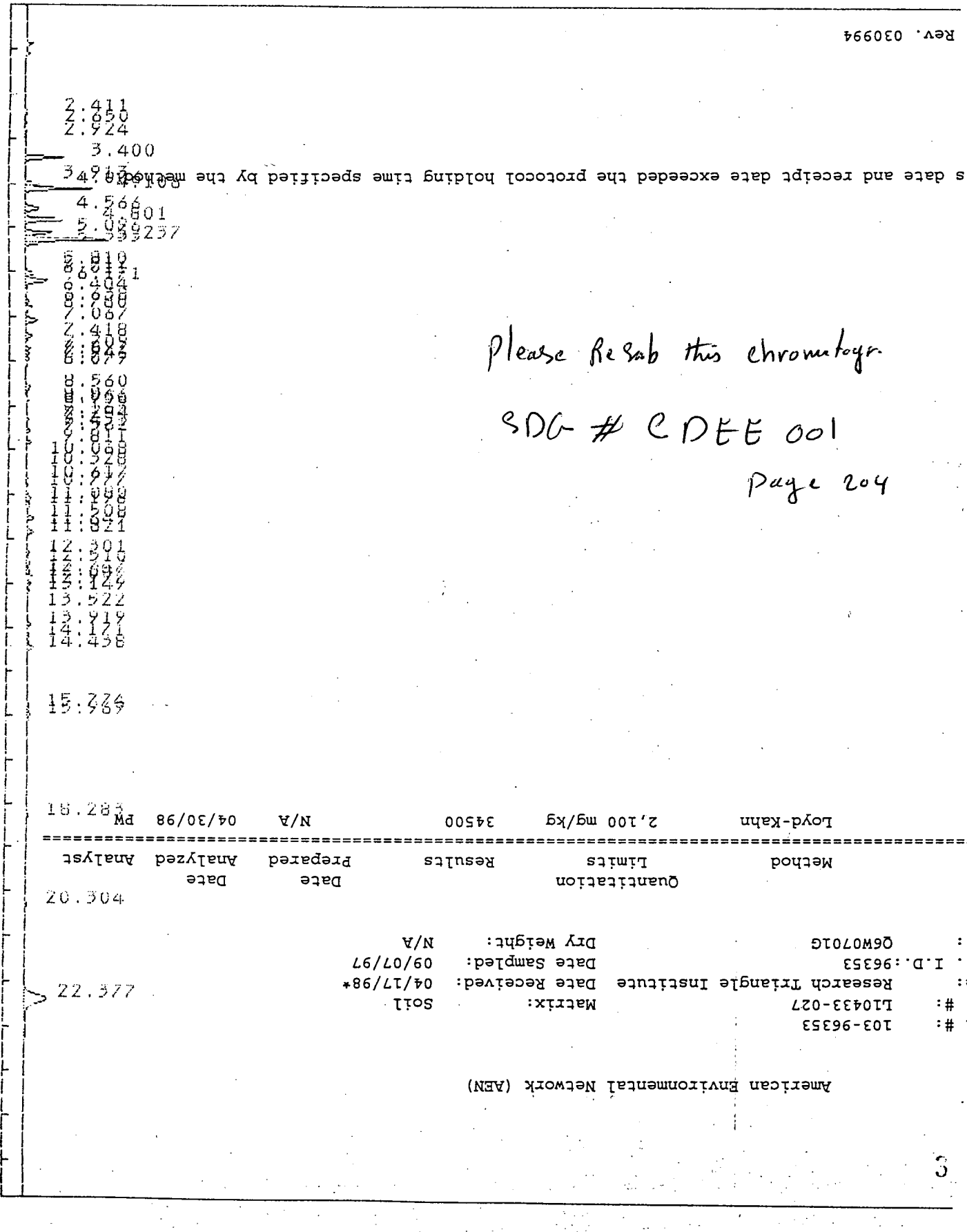
* Values outside of QC limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS:

IEA Pesticide Standard Report

Sample Name : AR1221C/PDC98-05 Inj on 0111 07May1998
Result File : /RESULT/PB050698_025.RES INSTRUMENT : HP5890PB
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



American Environmental Network (AEN)

IEA Project #: 103-96353
IEA Sample #: L10433-027
Client Name: Research Triangle Institute
Client Proj. I.D.: 96353
Sample I.D.: Q6W0701G

Matrix: Soil
Date Received: 04/17/98*
Date Sampled: 09/07/97
Dry Weight: N/A

Parameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
TOC	Loyd-Kahn	2,100 mg/kg	34500	N/A	04/30/98	PW

Please Resub this chromatogr.

SDG # CDEE 001

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Comments:
* = Analysis date and receipt date exceeded the protocol holding time specified by the method.

FORM RESP3 Rev. 030994

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Instrument ID: HP5890PA Date(s) Analyzed: 05/05/98

GC Column:RTX-35 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	LVL	CALIBRATION FACTOR
AR1260	0.25	1	13073708
	0.50	2	12842422
	1.0	3	12095685
	2.0	4	11816607
	4.0	5	11127333
AVERAGE			12191151

area/conc. does not match the chro.

FORM VI PEST-3 3/90

This is a copy of analysis performed on 10-6-2[illegible]

The correct response factors for May 5, 1998 was found on SDG# CDDD-001

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDCC001

Instrument ID: HP5890PA Date(s) Analyzed: 10/06/97

GC Column:RTX-35 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	LVL	CALIBRATION FACTOR
AR1260	0.25	1	13073708
	0.50	2	12842422
	1.0	3	12095685
	2.0	4	11816607
	4.0	5	11127333
AVERAGE			12191151

FORM VI PEST-3 3/90

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: INDUSTRIAL & ENVIRONMENTAL ANALYTS

Lab Code: IEA Case No.: RFP#2523 Method: 8082 SDG No.: CDDD001

Instrument ID: HP5890PA Date(s) Analyzed: 05/05/98

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	LVL	CALIBRATION FACTOR
AR1260	0.25	1	15638396
	0.50	2	15506938
	1.0	3	14014148
	2.0	4	12991012
	4.0	5	12088552
AVERAGE			14047809

FORM VI PEST-3 3/90

WESTON
MANAGERS DESIGNERS/CONSULTANTS

END OF DATA PACKAGE