PMK Group
CONSULTING & ENVIRONMENTAL ENGINEERS

ATTACHMENT 3

POST-EXCAVATION SOIL ANALYTICAL RESULTS REPORT

INTERIM REMEDIAL ACTION REPORT
VETERANS MEMORIAL PARK
BLOCK 260, LOT 15.02
SOUTH PLAINFIELD, NEW JERSEY
CASE NUMBER 01-08-07-1845-23
PMK GROUP #0502014-01

February 12, 2004

Chemtech

Hit Summary Report

SDG No.: R4687
Client: PMK Group
Test: PCB

Order ID: R4687
Project ID: Veterans Memorial Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	PCB1-S1							
R4687-06	PCB1-S1	SOIL	AROCLOR 1254	180		20	13	ug/Kg
		Total PCB's:		180.00				
Client ID:	PCB1-S3							
R4687-08	PCB1-S3	SOIL	AROCLOR 1254	42		19	12	ug/Kg
R4687-08	PCB1-S3	SOIL	AROCLOR 1260	44	P	19	2.3	ug/Kg
		Total PCB's:		86.00				
Client ID:	PCB1-S4							
R4687-09	PCB1-S4	SOIL	AROCLOR 1254	26		19	12	ug/Kg
R4687-09	PCB1-S4	SOIL	AROCLOR 1260	34	P	19	2.2	ug/Kg
		Total PCB's:		60.00				
Client ID:	PCB2-S1							
R4687-11	PCB2-S1	SOIL	AROCLOR 1254	22		19	12	ug/Kg
		Total PCB's:		22.00				
Client ID:	PCB2-S2							
R4687-12	PCB2-S2	SOIL	AROCLOR 1254	40		19	12	ug/Kg
R4687-12	PCB2-S2	SOIL	AROCLOR 1260	36	P	19	2.2	ug/Kg
		Total PCB's:		76.00				
Client ID:	PCB2-S4							
R4687-14	PCB2-S4	SOIL	AROCLOR 1254	25	P	22	13	ug/Kg
		Total PCB's:		25.00				

Chemtech Consulting Group

Hit Summary Sheet
SW-846

SDG No.: R4687 | **Order ID:** R4687

Client: PMK Group | **Project ID:** Veterans Memorial Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	**TP31-S1**							
R4687-01	TP31-S1	SOIL	Arsenic	2.4		1.2	0.24	mg/Kg
Client ID:	**TP31-S2**							
R4687-02	TP31-S2	SOIL	Arsenic	2.7		1.2	0.25	mg/Kg
Client ID:	**TP31-S3**							
R4687-03	TP31-S3	SOIL	Arsenic	0.84	J	1.1	0.23	mg/Kg
Client ID:	**TP31-S4**							
R4687-04	TP31-S4	SOIL	Arsenic	1.2		1.2	0.25	mg/Kg
Client ID:	**TP31-S5**							
R4687-05	TP31-S5	SOIL	Arsenic	3.2		1.2	0.25	mg/Kg

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: R 4687

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non- Conformance Summary.

		Yes	NA
I.	Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	✓	
II.	Table of Contents	✓	
III.	Chain of Custody Documents	✓	
IV.	Methodology Summaries	✓	
V.	Laboratory Chronicle and Hold Time Checks	✓	
VI.	Non-Conformance Summary	✓	
VII.	Tabulated Analytical Results	✓	
VIII.	Initial and Continuing Calibration Information	✓	
IX.	Tune and Internal Standard Area Summaries (GC/MS)	✓	
X.	Quality Control Summary Reports	✓	
XI.	Surrogate Recovery Summary	✓	
XII.	Raw Data Chromatogram, Blank, Samples and QC when applicable	✓	
XIII.	Subcontract Data		✓

Raytheather Calpaner
QA/QC Data Reviewer

10/31/13
Date

☐ 110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

☑ 284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

CHEMTECH

CHAIN OF CUSTODY RECORD

234 Field Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.:

CHEMTECH QUOTE NO.: R4687

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: PMK GROUP
ADDRESS: 65 JACKSON DR.
CITY: CRANFORD STATE: NJ ZIP: 07016
ATTENTION: DEVANGI PATEL
PHONE: 908 497 8900 FAX: 908 497 8943

PROJECT INFORMATION

PROJECT NAME: VETERANS MEMORIAL PARK
PROJECT NO.: 0502014-01 LOCATION: S. Plainfield, NJ
PROJECT MANAGER: Devangi Patel
E-MAIL: dpatel@pmkgroup.com
PHONE: 908 497 8900 FAX: 908 497 8943

BILLING INFORMATION

BILL TO: PMK PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: ONE DAYS *
HARD COPY: SAME DAYS *
EDD: SAME DAYS *
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ NY STATE CATEGORY A
☐ RESULTS PLUS QC ☐ NY STATE CATEGORY B
☐ REGULATORY FORMAT, STATE:
☒ NEW JERSEY REDUCED DELIVERABLES
☐ CLP ☐ OTHER:
☐ EDD FORMAT:

ANALYSIS

ARSENIC ⊛
PCB ⊛

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	2 (E)	3	4	5	6	7	8	9	COMMENTS
1. 1	TP31-S1	SO		X	10/16/03	1105	1	X									
2. 2	TP31-S2	SO		X	10/16/03	1110	1	X									
3. 3	TP31-S3	SO		X	10/16/03	1115	1	X									
4. 4	TP31-S4	SO		X	10/16/03	1120	1	X									
5. 5	TP31-S5	SO		X	10/16/03	1125	1	X									
6. 6	PCB1-S1	SO		X	10/20/03	945	1		X								
7. 7	PCB1-S2	SO		X	10/20/03	947	1		X								
8. 8	PCB1-S3	SO		X	10/20/03	949	1		X								
9. 9	PCB1-S4	SO		X	10/20/03	951	1		X								
10. 10	PCB1-S5	SO		X	10/20/03	953	1		X								

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	10/20/03 3pm	1. [signature]
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 18:00 10/20/03	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Complaint ☐ Non-Complaint ☑ Temp. of Cooler 4
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
⊛ Please rush TAT ASAP.

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Ver. 10/2002

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

43861

CHEMTECH

CHAIN OF CUSTODY RECORD

234 Schofield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: R4687

CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: PMK Group
ADDRESS: 65 Jackson Dr.
CITY: Cranford STATE: NJ ZIP: 07016
ATTENTION: Devang Patel
PHONE: 908 497 8900 FAX: 908 497 8943

PROJECT INFORMATION

PROJECT NAME: Veterans Memorial Park
PROJECT NO.: 0502014-01 LOCATION: S. Plainfield
PROJECT MANAGER: Devang Patel
E-MAIL: dpatel@pmkgroup.com
PHONE: 908 497 8900 FAX: 908 497 8943

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ATTENTION: PHONE:

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EDD: Std DAYS *
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

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☐ CLP ☐ OTHER:
☐ EDD FORMAT:

ANALYSIS

PCB

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	2	3	4	5	6	7	8	9	COMMENTS
1. 11	PCB2-S1	SO		X	10/20/03	1005	1	X									
2. 12	PCB2-S2	SO		X	10/20/03	1007	1	X									
3. 13	PCB2-S3	SO		X	10/20/03	1009	1	X									
4. 14	PCB2-S4	SO		X	10/20/03	1011	1	X									
5. 15	PCB2-S5	SO		X	10/20/03	1013	1	X									
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY/SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	10/20/03 3pm	1. [signature]
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 10/20/03 18:00	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Complaint ☐ Non-Complaint ☑ Temp. of Cooler 4
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Please rush TAT ASAP.

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Ver. 10/2002

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

43862

QA REVIEW GENERAL DOCUMENTATION

Project #: R4687

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN-OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓

Non – Conformance /Comments:

1st Level QA Review Signature: Raytheatha, Icalpeine Date: 10/3/13

2nd Level QA Review Signature: [illegible] Date: 10/3/03

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT LAB NUMBER: R4687 MATRIX: Soil METHOD: 8082

	YES	NA	NO
1. Chromatograms Labeled/Compounds Identified.	✓		
2. Standards Summary Submitted	✓		
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD	✓		
4. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.	✓		
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range. See MS/MSD Summary page			✓
7. Retention Time Shift Meet Criteria (if applicable)	✓		
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample.	✓		
9 Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.	✓		

Additional Comments:

Analyst — Date: 10/24/03

QA REVIEW — Date: 10/31/03

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012 : NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: R4687 MATRIX: Soil

METHOD: SW846

	NA	NO	YES
1. Calibration Summary meet criteria:			✓
2. ICP Interference Check Sample Results Summary Submitted			✓
3. Serial Dilution Summary Submitted (if applicable)meet criteria			✓
4. Laboratory Control Sample Summary Submitted (if applicable)			✓
5. Blank Contamination Meet criteria Blank Contamination			✓

If No, list compounds and concentrations in each blank:

6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside of the acceptance range:

7. Sample Duplicate Analysis Meet QC Criteria:			✓

If not met, list those compounds and their % differences which fall outside of the acceptance range:

8. Digestion Holding Time Met			✓

If not met, list number of days exceeded for each sample:

9. Analysis Holding Time Met			✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

Supervisor — Date: 10/31/03

QA REVIEW — Date: 10/31/03

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-06 Client ID: PCB1-S1

Date Collected: 10/20/2003 Date Received: 10/20/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/21/2003 File ID: 4PC3335.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 17.0 Associated Blank: PB102103-19B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

ameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
OCLOR 1016	12674-11-2	< 6.2	U	20	6.2	ug/Kg
ROCLOR 1221	11104-28-2	< 1.5	U	20	1.5	ug/Kg
ROCLOR 1232	11141-16-5	< 9.5	U	20	9.5	ug/Kg
OCLOR 1242	53469-21-9	< 2.6	U	20	2.6	ug/Kg
ROCLOR 1248	12672-29-6	< 6.6	U	20	6.6	ug/Kg
ROCLOR 1254	11097-69-1	180		20	13	ug/Kg
OCLOR 1260	11096-82-5	< 2.4	U	20	2.4	ug/Kg
URROGATES						
etachloro-m-xylene	877-09-8	10.63	53 %	24 - 151		SPK: 20
chlorobiphenyl	2051-24-3	12.35	62 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-07 Client ID: PCB1-S2

Date Collected: 10/20/2003 Date Received: 10/20/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/21/2003 File ID: 4PC3336.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 14.0 Associated Blank: PB102103-19B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

meter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
OCLOR 1016	12674-11-2	< 6.0	U	20	6.0	ug/Kg
ROCLOR 1221	11104-28-2	< 1.5	U	20	1.5	ug/Kg
ROCLOR 1232	11141-16-5	< 9.2	U	20	9.2	ug/Kg
OCLOR 1242	53469-21-9	< 2.5	U	20	2.5	ug/Kg
ROCLOR 1248	12672-29-6	< 6.4	U	20	6.4	ug/Kg
ROCLOR 1254	11097-69-1	< 12	U	20	12	ug/Kg
OCLOR 1260	11096-82-5	< 2.3	U	20	2.3	ug/Kg
URROGATES						
chloro-m-xylene	877-09-8	12.37	62 %	24 - 151		SPK: 20
chlorobiphenyl	2051-24-3	13.08	65 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-08 Client ID: PCB1-S3

Date Collected:	10/20/2003	Date Received:	10/20/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/21/2003	File ID:	4PC3337.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	13.0	Associated Blank:	PB102103-19B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

ameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
OCLOR 1016	12674-11-2	< 5.9	U	19	5.9	ug/Kg
ROCLOR 1221	11104-28-2	< 1.5	U	19	1.5	ug/Kg
ROCLOR 1232	11141-16-5	< 9.1	U	19	9.1	ug/Kg
OCLOR 1242	53469-21-9	< 2.5	U	19	2.5	ug/Kg
ROCLOR 1248	12672-29-6	< 6.3	U	19	6.3	ug/Kg
OCLOR 1254	11097-69-1	42		19	12	ug/Kg
OCLOR 1260	11096-82-5	44	P	19	2.3	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	11.4	57 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	13.24	66 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-09 Client ID: PCB1-S4

Date Collected: 10/20/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/21/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 10.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/20/2003
Matrix: SOIL
File ID: 4PC3338.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102103-19B
Extract Vol: 10000

ameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
ROCLOR 1016	12674-11-2	< 5.7	U	19	5.7	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	19	1.4	ug/Kg
ROCLOR 1232	11141-16-5	< 8.8	U	19	8.8	ug/Kg
OCLOR 1242	53469-21-9	< 2.4	U	19	2.4	ug/Kg
ROCLOR 1248	12672-29-6	< 6.1	U	19	6.1	ug/Kg
OCLOR 1254	11097-69-1	26		19	12	ug/Kg
OCLOR 1260	11096-82-5	34	P	19	2.2	ug/Kg
URROGATES						
etrachloro-m-xylene	877-09-8	12.13	61 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	13.33	67 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-10 Client ID: PCB1-S5

Date Collected: 10/20/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/21/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 28.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/20/2003
Matrix: SOIL
File ID: 4PC3339.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102103-19B
Extract Vol: 10000

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 7.1	U	23	7.1	ug/Kg
AROCLOR 1221	11104-28-2	< 1.8	U	23	1.8	ug/Kg
AROCLOR 1232	11141-16-5	< 11	U	23	11	ug/Kg
AROCLOR 1242	53469-21-9	< 3.0	U	23	3.0	ug/Kg
AROCLOR 1248	12672-29-6	< 7.6	U	23	7.6	ug/Kg
AROCLOR 1254	11097-69-1	< 15	U	23	15	ug/Kg
AROCLOR 1260	11096-82-5	< 2.7	U	23	2.7	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	11.66	58 %	24 - 151		SPK: 20
Decachlorobiphenyl	2051-24-3	13.33	67 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-11 Client ID: PCB2-S1

Date Collected:	10/20/2003	Date Received:	10/20/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/21/2003	File ID:	4PC3340.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	10.0	Associated Blank:	PB102103-19B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

ameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
OCLOR 1016	12674-11-2	< 5.7	U	19	5.7	ug/Kg
OCLOR 1221	11104-28-2	< 1.4	U	19	1.4	ug/Kg
OCLOR 1232	11141-16-5	< 8.8	U	19	8.8	ug/Kg
OCLOR 1242	53469-21-9	< 2.4	U	19	2.4	ug/Kg
OCLOR 1248	12672-29-6	< 6.1	U	19	6.1	ug/Kg
OCLOR 1254	11097-69-1	22		19	12	ug/Kg
OCLOR 1260	11096-82-5	< 2.2	U	19	2.2	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	11.41	57 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	12.2	61 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-12 | Client ID: PCB2-S2

Date Collected:	10/20/2003	Date Received:	10/20/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/21/2003	File ID:	4PC3341.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	11.0	Associated Blank:	PB102103-19B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

ıameter	CAS Number	Concentration	C	RDL	MDL	Units
'ARGETS						
) CLOR 1016	12674-11-2	< 5.8	U	19	5.8	ug/Kg
ROCLOR 1221	11104-28-2	< 1.5	U	19	1.5	ug/Kg
ROCLOR 1232	11141-16-5	< 8.9	U	19	8.9	ug/Kg
) CLOR 1242	53469-21-9	< 2.5	U	19	2.5	ug/Kg
ROCLOR 1248	12672-29-6	< 6.2	U	19	6.2	ug/Kg
) CLOR 1254	11097-69-1	40		19	12	ug/Kg
) CLOR 1260	11096-82-5	36	P	19	2.2	ug/Kg
URROGATES						
e-achloro-m-xylene	877-09-8	13.15	66 %	24 - 151		SPK: 20
ıchlorobiphenyl	2051-24-3	14.04	70 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-13 Client ID: PCB2-S3

Date Collected: 10/20/2003 Date Received: 10/20/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/21/2003 File ID: 4PC3342.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 13.0 Associated Blank: PB102103-19B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

ameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
OCLOR 1016	12674-11-2	< 5.9	U	19	5.9	ug/Kg
OCLOR 1221	11104-28-2	< 1.5	U	19	1.5	ug/Kg
ROCLOR 1232	11141-16-5	< 9.1	U	19	9.1	ug/Kg
OCLOR 1242	53469-21-9	< 2.5	U	19	2.5	ug/Kg
ROCLOR 1248	12672-29-6	< 6.3	U	19	6.3	ug/Kg
OCLOR 1254	11097-69-1	< 12	U	19	12	ug/Kg
OCLOR 1260	11096-82-5	< 2.3	U	19	2.3	ug/Kg
URROGATES						
etrachloro-m-xylene	877-09-8	10.46	52 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	11.52	58 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-14 | Client ID: PCB2-S4

Date Collected:	10/20/2003	Date Received:	10/20/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/21/2003	File ID:	4PC3343.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	22.0	Associated Blank:	PB102103-19B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

ameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
OCLOR 1016	12674-11-2	< 6.6	U	22	6.6	ug/Kg
ROCLOR 1221	11104-28-2	< 1.7	U	22	1.7	ug/Kg
ROCLOR 1232	11141-16-5	< 10	U	22	10	ug/Kg
OCLOR 1242	53469-21-9	< 2.8	U	22	2.8	ug/Kg
ROCLOR 1248	12672-29-6	< 7.0	U	22	7.0	ug/Kg
OCLOR 1254	11097-69-1	25	P	22	13	ug/Kg
OCLOR 1260	11096-82-5	< 2.5	U	22	2.5	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	12.57	63 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	13.64	68 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: R4687-15 Client ID: PCB2-S5

Date Collected: 10/20/2003 Date Received: 10/20/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/21/2003 File ID: 4PC3344.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 17.0 Associated Blank: PB102103-19B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

ameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
OCLOR 1016	12674-11-2	< 6.2	U	20	6.2	ug/Kg
AROCLOR 1221	11104-28-2	< 1.6	U	20	1.6	ug/Kg
OCLOR 1232	11141-16-5	< 9.6	U	20	9.6	ug/Kg
OCLOR 1242	53469-21-9	< 2.6	U	20	2.6	ug/Kg
AROCLOR 1248	12672-29-6	< 6.6	U	20	6.6	ug/Kg
OCLOR 1254	11097-69-1	< 13	U	20	13	ug/Kg
OCLOR 1260	11096-82-5	< 2.4	U	20	2.4	ug/Kg
SURROGATES						
achloro-m-xylene	877-09-8	9.56	48 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	10.83	54 %	24 - 151		SPK: 20

PCB

SDG No.: R4687

Client: PMK Group

Sample ID: PB102103-19B

Client ID: PB102103-19B

Date Collected:

Date Received:

Date Analyzed: 10/23/2003

Matrix: SOIL

Date Extracted: 10/21/2003

File ID: 4PC3372.D

Dilution: 1

Instrument ID: ECD4

Analytical Method: 8082

Analytical Run ID: 4PC102203

% Moisture: 0.0

Associated Blank:

Sample Wt/Vol: 30

Extract Vol: 10000

Injection Vol: 1

ameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
OCLOR 1016	12674-11-2	< 5.2	U	17	5.2	ug/Kg
ROCLOR 1221	11104-28-2	< 1.3	U	17	1.3	ug/Kg
ROCLOR 1232	11141-16-5	< 8.0	U	17	8.0	ug/Kg
OCLOR 1242	53469-21-9	< 2.2	U	17	2.2	ug/Kg
ROCLOR 1248	12672-29-6	< 5.5	U	17	5.5	ug/Kg
ROCLOR 1254	11097-69-1	< 11	U	17	11	ug/Kg
OCLOR 1260	11096-82-5	< 2.0	U	17	2.0	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	15.32	77 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	15.59	78 %	24 - 151		SPK: 20

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: PMK Group **SDG No.:** R4687 **Method Type:** SW846

Sample ID: R4687-01 **Client ID:** TP31-S1

Contract: PMK Group **Lab Code:** CHEMED **Case No.:** R4687 **SAS No.:** R4687

Matrix: SOIL **Date Received:** 10/20/03 **Level:** LOW

% Solids: 86.5 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
Arsenic	7440-38-2	2.4	mg/Kg			P	0.24	P2	P210213

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: PMK Group **SDG No.:** R4687 **Method Type:** SW846

Sample ID: R4687-02 **Client ID:** TP31-S2

Contract: PMK Group **Lab Code:** CHEMED **Case No.:** R4687 **SAS No.:** R4687

Matrix: SOIL **Date Received:** 10/20/03 **Level:** LOW

% Solids: 84.8 **Sample Wt/Vol:** 1.0 **Final Vol:** 100.0

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
Arsenic	7440-38-2	2.7	mg/Kg			P	0.25	P2	P210213

Color Before: BROWN **Clarity Before:** **Texture:** MEDIUM

Color After: YELLOW **Clarity After:** **Artifacts:**

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: PMK Group SDG No.: R4687 Method Type: SW846

Sample ID: R4687-03 Client ID: TP31-S3

Contract: PMK Group Lab Code: CHEMED Case No.: R4687 SAS No.: R4687

Matrix: SOIL Date Received: 10/20/03 Level: LOW

% Solids: 90.0 Sample Wt/Vol: 1.0 Final Vol: 100.0

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
Arsenic	7440-38-2	0.84	mg/Kg	J		P	0.23	P2	P210213

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: PMK Group SDG No.: R4687 Method Type: SW846

Sample ID: R4687-04 Client ID: TP31-S4

Contract: PMK Group Lab Code: CHEMED Case No.: R4687 SAS No.: R4687

Matrix: SOIL Date Received: 10/20/03 Level: LOW

% Solids: 85.4 Sample Wt/Vol: 1.0 Final Vol: 100.0

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
Arsenic	7440-38-2	1.2	mg/Kg			P	0.25	P2	P210213

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: PMK Group SDG No.: R4687 Method Type: SW846

Sample ID: R4687-05 Client ID: TP31-S5

Contract: PMK Group Lab Code: CHEMED Case No.: R4687 SAS No.: R4687

Matrix: SOIL Date Received: 10/20/03 Level: LOW

% Solids: 83.8 Sample Wt/Vol: 1.0 Final Vol: 100.0

Analyte	CAS No.	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
Arsenic	7440-38-2	3.2	mg/Kg			P	0.25	P2	P210213

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Chemtech

Hit Summary Report

SDG No.: R4754
Client: PMK Group
Test: PCB

Order ID: R4754
Project ID: Veterans Memorial Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	PCB3-S1							
R4754-01	PCB3-S1	SOIL	AROCLOR 1260	75	P	19	2.2	ug/Kg
		Total PCB's:		75.00				
Client ID:	PCB3-S1DL							
R4754-01DL	PCB3-S1DL	SOIL	AROCLOR 1248	527	DP	37	12	ug/Kg
		Total PCB's:		527.00				
Client ID:	PCB3-S2							
R4754-02	PCB3-S2	SOIL	AROCLOR 1260	61	P	18	2.2	ug/Kg
		Total PCB's:		61.00				
Client ID:	PCB3-S2DL							
R4754-02DL	PCB3-S2DL	SOIL	AROCLOR 1248	549	DP	37	12	ug/Kg
		Total PCB's:		549.00				
Client ID:	PCB3-S3							
R4754-03	PCB3-S3	SOIL	AROCLOR 1248	45	P	18	5.8	ug/Kg
R4754-03	PCB3-S3	SOIL	AROCLOR 1260	16	J	18	2.1	ug/Kg
		Total PCB's:		61.00				
Client ID:	PCB3-S4							
R4754-04	PCB3-S4	SOIL	AROCLOR 1254	35		19	12	ug/Kg
		Total PCB's:		35.00				
Client ID:	PCB3-S5							
R4754-05	PCB3-S5	SOIL	AROCLOR 1248	28		20	6.5	ug/Kg
		Total PCB's:		28.00				
Client ID:	PCB4-S1							
R4754-06	PCB4-S1	SOIL	AROCLOR 1254	60		18	11	ug/Kg
		Total PCB's:		60.00				
Client ID:	PCB4-S2							
R4754-07	PCB4-S2	SOIL	AROCLOR 1254	31		18	11	ug/Kg
		Total PCB's:		31.00				
Client ID:	PCB4-S3							
R4754-08	PCB4-S3	SOIL	AROCLOR 1254	25		18	11	ug/Kg
R4754-08	PCB4-S3	SOIL	AROCLOR 1260	21		18	2.1	ug/Kg
		Total PCB's:		46.00				
Client ID:	PCB4-S4							
R4754-09	PCB4-S4	SOIL	AROCLOR 1254	32		18	11	ug/Kg
R4754-09	PCB4-S4	SOIL	AROCLOR 1260	22	P	18	2.1	ug/Kg
		Total PCB's:		54.00				

Chemtech

Hit Summary Report

SDG No.: R4754
Client: PMK Group
Test: PCB

Order ID: R4754
Project ID: Veterans Memorial Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	PCB4-S5							
R4754-10	PCB4-S5	SOIL	AROCLOR 1254	28	P	18	11	ug/Kg
R4754-10	PCB4-S5	SOIL	AROCLOR 1260	16	JP	18	2.2	ug/Kg
		Total PCB's:		44.00				
Client ID:	PCB4-S6							
R4754-11	PCB4-S6	SOIL	AROCLOR 1254	49	P	18	11	ug/Kg
R4754-11	PCB4-S6	SOIL	AROCLOR 1260	32	P	18	2.1	ug/Kg
		Total PCB's:		81.00				

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: Veterans Memorial Park

Order R4754

CustomerName PMK Group

LAB SAMPLE NO.	CLIENT SAMPLE NO
R4754-13	PCB4-S8
R4754-10	PCB4-S5
R4754-11	PCB4-S6
R4754-12	PCB4-S7
R4754-07	PCB4-S2
R4754-08	PCB4-S3
R4754-09	PCB4-S4
R4754-04	PCB3-S4
R4754-05	PCB3-S5
R4754-06	PCB4-S1
R4754-01	PCB3-S1
R4754-02	PCB3-S2
R4754-03	PCB3-S3

I certify that the 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 hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Carole Collins Name: Carole Collins

Date: 11/2/03 Title: QA/QC

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO. 20012

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: R4754

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non- Conformance Summary.

		Yes	NA
I.	Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	✓	
II.	Table of Contents	✓	
III.	Chain of Custody Documents	✓	
IV.	Methodology Summaries	✓	
V.	Laboratory Chronicle and Hold Time Checks	✓	
VI.	Non-Conformance Summary	✓	
VII.	Tabulated Analytical Results	✓	
VIII.	Initial and Continuing Calibration Information	✓	
IX.	Tune and Internal Standard Area Summaries (GC/MS)		✓
X.	Quality Control Summary Reports	✓	
XI.	Surrogate Recovery Summary	✓	
XII.	Raw Data Chromatogram, Blank, Samples and QC when applicable	✓	
XIII.	Subcontract Data		✓

Carole Collins
QA/QC Data Reviewer

11/2/03
Date

☐ 110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

☑ 284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

CHEMTECH
CHAIN OF CUSTODY RECORD

(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH QUOTE NO.: R4754

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: PMK
ADDRESS: 65 JACKSON DR
CITY: CRANFORD STATE: NJ ZIP: 07016
ATTENTION: DEVANG PATEL
PHONE: 908 497 8900 FAX: 908 497 8943

PROJECT INFORMATION

PROJECT NAME: VETERANS MEMORIAL PARK
PROJECT NO.: 05020014-01 LOCATION: S. PLAINFIELD
PROJECT MANAGER: DEVANG PATEL
E-MAIL: dpatel@pmkgroup.com
PHONE: — FAX: —

BILLING INFORMATION

BILL TO: PMK PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: Same (*) DAYS *
HARD COPY: STD DAYS *
EDD: STD DAYS *
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ NY STATE CATEGORY A
☐ RESULTS PLUS QC ☐ NY STATE CATEGORY B
☐ REGULATORY FORMAT, STATE:
☒ NEW JERSEY REDUCED DELIVERABLES
☐ CLP ☐ OTHER:
☐ EDD FORMAT:

ANALYSIS: PCBs

PRESERVATIVES: E

COMMENTS: ← Specify Preservatives
A–HCl B–HNO_3
C–H_2SO_4 D–NaOH
E–ICE F–Other

	CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1 (E)	2	3	4	5	6	7	8	9	COMMENTS
1.	1	PCB3-S1	Soil		X	10/21/03	730	1	X									
2.	2	PCB3-S2					732		X									
3.	3	PCB3-S3					734		X									
4.	4	PCB3-S4					736		X									
5.	5	PCB3-S5					738		X									
6.	6	PCB4-S1					1230		X									
7.	7	PCB4-S2					1232		X									
8.	8	PCB4-S3					1234		X									
9.	9	PCB4-S4					1236		X									
10.	10	PCB4-S5					1238		X									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	10/21/03 330pm	1. [signature]
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. [signature]	DATE/TIME: 4:20 10-21-03	RECEIVED FOR LAB BY: Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Complaint ☐ Non-Complaint ☑ Temp. of Cooler 4
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
(*) TAT ASAP Please - 1 or 2 days.

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Ver. 10/2002

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43863

CHEMTECH
CHAIN OF CUSTODY RECORD

234 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.:
CHEMTECH QUOTE NO.: R4754

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: PMK
ADDRESS: 65 JACKSON DR
CITY: CRANFORD STATE: NJ ZIP 07016
ATTENTION: Devang Patel
PHONE: 9083497940 FAX: — 8943

PROJECT INFORMATION

PROJECT NAME: Veterans Memorial Park
PROJECT NO.: 0502014-01 LOCATION: SP
PROJECT MANAGER: Devang Patel
E-MAIL: dpatel@pmkgroup.com
PHONE: — FAX: —

BILLING INFORMATION

BILL TO: PMK PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: One * DAYS *
HARD COPY: Std DAYS *
EDD: Std DAYS *
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ NY STATE CATEGORY A
☐ RESULTS PLUS QC ☐ NY STATE CATEGORY B
☐ REGULATORY FORMAT, STATE:
☒ NEW JERSEY REDUCED DELIVERABLES
☐ CLP ☐ OTHER:
☐ EDD FORMAT:

ANALYSIS

PCB's

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	2	3	4	5	6	7	8	9	COMMENTS
1. 11	PCB4-S6	Soil		X	10/21/03	1240	1	X									
2. 12	PCB4-S7					1242		X									
3. 13	PCB4-S8					1244		X									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	10/21/03 330	1. [signature]
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. [signature]	DATE/TIME: 4:20 10-21-03	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Complaint ☐ Non-Complaint ☑ Temp. of Cooler 4
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments: TAT ASAP Please

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Ver. 10/2002

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

40995

QA REVIEW GENERAL DOCUMENTATION

Project #: R4754

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) ✓
Check chain-of-custody for proper relinquish/return of samples ✓
Is the chain of custody signed and complete ✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts ✓
Collect information for each project id from server. Were all requirements followed ✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page ✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody ✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results ✓
Do requested analyses on Chain of Custody agree with the log-in page ✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody ✓
Were the samples received within hold time ✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle ✓

Non – Conformance /Comments:

1st Level QA Review Signature: Carole Collins Date: 11/2/03

2nd Level QA Review Signature: [signature] Date: 11/3/03

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT LAB NUMBER: R4754 MATRIX: Soil METHOD: 8082

	YES	NA	NO
1. Chromatograms Labeled/Compounds Identified.	✓		
2. Standards Summary Submitted	✓		
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD	✓		
4. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. See Surrogate Summary page.			✓
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range. See MS/MSD Summary page.			✓
7. Retention Time Shift Meet Criteria (if applicable)	✓		
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample.	✓		
9 Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.	✓		

Additional Comments:

Analyst: [signature] Date: 10/24/03

QA REVIEW: Carole Collins Date: 11/21/03

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-01 Client ID: PCB3-S1

Date Collected: 10/21/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/22/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 9.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/21/2003
Matrix: SOIL
File ID: 4PC3348.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102203-01B
Extract Vol: 10000

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 5.7	U	19	5.7	ug/Kg
AROCLOR 1221	11104-28-2	< 1.4	U	19	1.4	ug/Kg
AROCLOR 1232	11141-16-5	< 8.8	U	19	8.8	ug/Kg
AROCLOR 1242	53469-21-9	< 2.4	U	19	2.4	ug/Kg
AROCLOR 1248	12672-29-6	395	E	19	6.0	ug/Kg
AROCLOR 1254	11097-69-1	< 12	U	19	12	ug/Kg
AROCLOR 1260	11096-82-5	75	P	19	2.2	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	12.44	62 %	24 - 151		SPK: 20
Decachlorobiphenyl	2051-24-3	15.38	77 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-01DL

Client ID: PCB3-S1DL

Date Collected: 10/21/2003
Date Analyzed: 10/24/2003
Date Extracted: 10/22/2003
Dilution: 2
Analytical Method: 8082
% Moisture: 9.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/21/2003
Matrix: SOIL
File ID: 4PC3384.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102203-01B
Extract Vol: 10000

ırameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
ROCLOR 1016	12674-11-2	< 11	UD	37	11	ug/Kg
AROCLOR 1221	11104-28-2	< 2.9	UD	37	2.9	ug/Kg
ROCLOR 1232	11141-16-5	< 18	UD	37	18	ug/Kg
ROCLOR 1242	53469-21-9	< 4.8	UD	37	4.8	ug/Kg
AROCLOR 1248	12672-29-6	527	DP	37	12	ug/Kg
ROCLOR 1254	11097-69-1	< 23	UD	37	23	ug/Kg
ROCLOR 1260	11096-82-5	< 4.4	UD	37	4.4	ug/Kg
SURROGATES						
trachloro-m-xylene	877-09-8	11.92	60 %	24 - 151		SPK: 20
cachlorobiphenyl	2051-24-3	19.64	98 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-02

Client ID: PCB3-S2

Date Collected: 10/21/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/22/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 8.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/21/2003
Matrix: SOIL
File ID: 4PC3362.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102203-01B
Extract Vol: 10000

arameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
ROCLOR 1016	12674-11-2	< 5.6	U	18	5.6	ug/Kg
AROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
ROCLOR 1232	11141-16-5	< 8.7	U	18	8.7	ug/Kg
ROCLOR 1242	53469-21-9	< 2.4	U	18	2.4	ug/Kg
AROCLOR 1248	12672-29-6	500	EP	18	6.0	ug/Kg
ROCLOR 1254	11097-69-1	< 12	U	18	12	ug/Kg
ROCLOR 1260	11096-82-5	61	P	18	2.2	ug/Kg
SURROGATES						
etrachloro-m-xylene	877-09-8	13.82	69 %	24 - 151		SPK: 20
ecachlorobiphenyl	2051-24-3	18.09	90 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-02DL

Client ID: PCB3-S2DL

Date Collected: 10/21/2003

Date Analyzed: 10/24/2003

Date Extracted: 10/22/2003

Dilution: 2

Analytical Method: 8082

% Moisture: 8.0

Sample Wt/Vol: 30

Injection Vol: 1

Date Received: 10/21/2003

Matrix: SOIL

File ID: 4PC3385.D

Instrument ID: ECD4

Analytical Run ID: 4PC102203

Associated Blank: PB102203-01B

Extract Vol: 10000

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 11	UD	37	11	ug/Kg
AROCLOR 1221	11104-28-2	< 2.8	UD	37	2.8	ug/Kg
AROCLOR 1232	11141-16-5	< 17	UD	37	17	ug/Kg
AROCLOR 1242	53469-21-9	< 4.8	UD	37	4.8	ug/Kg
AROCLOR 1248	12672-29-6	549	DP	37	12	ug/Kg
AROCLOR 1254	11097-69-1	< 23	UD	37	23	ug/Kg
AROCLOR 1260	11096-82-5	< 4.3	UD	37	4.3	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	12.76	64 %	24 - 151		SPK: 20
Decachlorobiphenyl	2051-24-3	17.46	87 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-03

Client ID: PCB3-S3

Date Collected: 10/21/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/22/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 5.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/21/2003
Matrix: SOIL
File ID: 4PC3363.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102203-01B
Extract Vol: 10000

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
ARGETS						
ROCLOR 1016	12674-11-2	< 5.5	U	18	5.5	ug/Kg
AROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
ROCLOR 1232	11141-16-5	< 8.4	U	18	8.4	ug/Kg
ROCLOR 1242	53469-21-9	< 2.3	U	18	2.3	ug/Kg
AROCLOR 1248	12672-29-6	45	P	18	5.8	ug/Kg
ROCLOR 1254	11097-69-1	< 11	U	18	11	ug/Kg
ROCLOR 1260	11096-82-5	16	J	18	2.1	ug/Kg
SURROGATES						
trachloro-m-xylene	877-09-8	11.82	59 %	24 - 151		SPK: 20
ecachlorobiphenyl	2051-24-3	15.72	79 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-04 Client ID: PCB3-S4

Date Collected:	10/21/2003	Date Received:	10/21/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/22/2003	File ID:	4PC3351.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	9.0	Associated Blank:	PB102203-01B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

arameter	CAS Number	Concentration	C	RDL	MDL	Units
RGETS						
OCLOR 1016	12674-11-2	< 5.7	U	19	5.7	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	19	1.4	ug/Kg
OCLOR 1232	11141-16-5	< 8.8	U	19	8.8	ug/Kg
OCLOR 1242	53469-21-9	< 2.4	U	19	2.4	ug/Kg
ROCLOR 1248	12672-29-6	< 6.0	U	19	6.0	ug/Kg
OCLOR 1254	11097-69-1	35		19	12	ug/Kg
OCLOR 1260	11096-82-5	< 2.2	U	19	2.2	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	11.34	57 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	10.43	52 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-05

Client ID: PCB3-S5

Date Collected: 10/21/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/22/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 15.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/21/2003
Matrix: SOIL
File ID: 4PC3352.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102203-01B
Extract Vol: 10000

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 6.1	U	20	6.1	ug/Kg
AROCLOR 1221	11104-28-2	< 1.5	U	20	1.5	ug/Kg
AROCLOR 1232	11141-16-5	< 9.4	U	20	9.4	ug/Kg
AROCLOR 1242	53469-21-9	< 2.6	U	20	2.6	ug/Kg
AROCLOR 1248	12672-29-6	28		20	6.5	ug/Kg
AROCLOR 1254	11097-69-1	< 12	U	20	12	ug/Kg
AROCLOR 1260	11096-82-5	< 2.3	U	20	2.3	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	13.69	68 %	24 - 151		SPK: 20
Decachlorobiphenyl	2051-24-3	11.75	59 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-06

Client ID: PCB4-S1

Date Collected: 10/21/2003
Date Analyzed: 10/23/2003
Date Extracted: 10/22/2003
Dilution: 1
Analytical Method: 8082
% Moisture: 7.0
Sample Wt/Vol: 30
Injection Vol: 1

Date Received: 10/21/2003
Matrix: SOIL
File ID: 4PC3353.D
Instrument ID: ECD4
Analytical Run ID: 4PC102203
Associated Blank: PB102203-01B
Extract Vol: 10000

ameter	CAS Number	Concentration	C	RDL	MDL	Units
RGETS						
OCLOR 1016	12674-11-2	< 5.6	U	18	5.6	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
OCLOR 1232	11141-16-5	< 8.6	U	18	8.6	ug/Kg
OCLOR 1242	53469-21-9	< 2.4	U	18	2.4	ug/Kg
ROCLOR 1248	12672-29-6	< 5.9	U	18	5.9	ug/Kg
OCLOR 1254	11097-69-1	60		18	11	ug/Kg
OCLOR 1260	11096-82-5	< 2.1	U	18	2.1	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	11.96	60 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	10.87	54 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-07 | Client ID: PCB4-S2

Date Collected:	10/21/2003	Date Received:	10/21/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/22/2003	File ID:	4PC3354.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	5.0	Associated Blank:	PB102203-01B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

arameter	CAS Number	Concentration	C	RDL	MDL	Units
GETS						
CLOR 1016	12674-11-2	< 5.5	U	18	5.5	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
CLOR 1232	11141-16-5	< 8.4	U	18	8.4	ug/Kg
CLOR 1242	53469-21-9	< 2.3	U	18	2.3	ug/Kg
ROCLOR 1248	12672-29-6	< 5.8	U	18	5.8	ug/Kg
CLOR 1254	11097-69-1	31		18	11	ug/Kg
ROCLOR 1260	11096-82-5	< 2.1	U	18	2.1	ug/Kg
RROGATES						
chloro-m-xylene	877-09-8	11.97	60 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	12.27	61 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-08

Client ID: PCB4-S3

Date Collected: 10/21/2003

Date Analyzed: 10/23/2003

Date Extracted: 10/22/2003

Dilution: 1

Analytical Method: 8082

% Moisture: 7.0

Sample Wt/Vol: 30

Injection Vol: 1

Date Received: 10/21/2003

Matrix: SOIL

File ID: 4PC3355.D

Instrument ID: ECD4

Analytical Run ID: 4PC102203

Associated Blank: PB102203-01B

Extract Vol: 10000

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
PCLOR 1016	12674-11-2	< 5.6	U	18	5.6	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
PCLOR 1232	11141-16-5	< 8.6	U	18	8.6	ug/Kg
OCLOR 1242	53469-21-9	< 2.4	U	18	2.4	ug/Kg
ROCLOR 1248	12672-29-6	< 5.9	U	18	5.9	ug/Kg
PCLOR 1254	11097-69-1	25		18	11	ug/Kg
ROCLOR 1260	11096-82-5	21		18	2.1	ug/Kg
URROGATES						
ichloro-m-xylene	877-09-8	12.6	63 %	24 - 151		SPK: 20
ecachlorobiphenyl	2051-24-3	13.88	69 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-09 Client ID: PCB4-S4

Date Collected: 10/21/2003 Date Received: 10/21/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/22/2003 File ID: 4PC3356.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 4.0 Associated Blank: PB102203-01B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
RGETS						
OCLOR 1016	12674-11-2	< 5.4	U	18	5.4	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
OCLOR 1232	11141-16-5	< 8.3	U	18	8.3	ug/Kg
OCLOR 1242	53469-21-9	< 2.3	U	18	2.3	ug/Kg
ROCLOR 1248	12672-29-6	< 5.7	U	18	5.7	ug/Kg
OCLOR 1254	11097-69-1	32		18	11	ug/Kg
ROCLOR 1260	11096-82-5	22	P	18	2.1	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	11.4	57 %	24 - 151		SPK: 20
ecachlorobiphenyl	2051-24-3	13.15	66 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-10 Client ID: PCB4-S5

Date Collected: 10/21/2003 Date Received: 10/21/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/22/2003 File ID: 4PC3358.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 8.0 Associated Blank: PB102203-01B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
TARGETS						
AROCLOR 1016	12674-11-2	< 5.6	U	18	5.6	ug/Kg
AROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
AROCLOR 1232	11141-16-5	< 8.7	U	18	8.7	ug/Kg
AROCLOR 1242	53469-21-9	< 2.4	U	18	2.4	ug/Kg
AROCLOR 1248	12672-29-6	< 6.0	U	18	6.0	ug/Kg
AROCLOR 1254	11097-69-1	28	P	18	11	ug/Kg
AROCLOR 1260	11096-82-5	16	JP	18	2.2	ug/Kg
SURROGATES						
Tetrachloro-m-xylene	877-09-8	10.9	54 %	24 - 151		SPK: 20
Decachlorobiphenyl	2051-24-3	12.13	61 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-11 | Client ID: PCB4-S6

Date Collected:	10/21/2003	Date Received:	10/21/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/22/2003	File ID:	4PC3359.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	7.0	Associated Blank:	PB102203-01B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

ameter	CAS Number	Concentration	C	RDL	MDL	Units
RGETS						
OCLOR 1016	12674-11-2	< 5.6	U	18	5.6	ug/Kg
ROCLOR 1221	11104-28-2	< 1.4	U	18	1.4	ug/Kg
OCLOR 1232	11141-16-5	< 8.6	U	18	8.6	ug/Kg
OCLOR 1242	53469-21-9	< 2.4	U	18	2.4	ug/Kg
ROCLOR 1248	12672-29-6	< 5.9	U	18	5.9	ug/Kg
OCLOR 1254	11097-69-1	49	P	18	11	ug/Kg
OCLOR 1260	11096-82-5	32	P	18	2.1	ug/Kg
RROGATES						
achloro-m-xylene	877-09-8	13.5	68 %	24 - 151		SPK: 20
achlorobiphenyl	2051-24-3	13.85	69 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-12 Client ID: PCB4-S7

Date Collected: 10/21/2003 Date Received: 10/21/2003
Date Analyzed: 10/23/2003 Matrix: SOIL
Date Extracted: 10/22/2003 File ID: 4PC3360.D
Dilution: 1 Instrument ID: ECD4
Analytical Method: 8082 Analytical Run ID: 4PC102203
% Moisture: 13.0 Associated Blank: PB102203-01B
Sample Wt/Vol: 30 Extract Vol: 10000
Injection Vol: 1

ameter	CAS Number	Concentration	C	RDL	MDL	Units
GETS						
CLOR 1016	12674-11-2	< 6.0	U	19	6.0	ug/Kg
ROCLOR 1221	11104-28-2	< 1.5	U	19	1.5	ug/Kg
CLOR 1232	11141-16-5	< 9.2	U	19	9.2	ug/Kg
CLOR 1242	53469-21-9	< 2.5	U	19	2.5	ug/Kg
ROCLOR 1248	12672-29-6	< 6.3	U	19	6.3	ug/Kg
CLOR 1254	11097-69-1	< 12	U	19	12	ug/Kg
CLOR 1260	11096-82-5	< 2.3	U	19	2.3	ug/Kg
URROGATES						
chloro-m-xylene	877-09-8	13.69	68 %	24 - 151		SPK: 20
chlorobiphenyl	2051-24-3	14.87	74 %	24 - 151		SPK: 20

PCB

SDG No.: R4754

Client: PMK Group

Sample ID: R4754-13 | Client ID: PCB4-S8

Date Collected:	10/21/2003	Date Received:	10/21/2003
Date Analyzed:	10/23/2003	Matrix:	SOIL
Date Extracted:	10/22/2003	File ID:	4PC3361.D
Dilution:	1	Instrument ID:	ECD4
Analytical Method:	8082	Analytical Run ID:	4PC102203
% Moisture:	12.0	Associated Blank:	PB102203-01B
Sample Wt/Vol:	30	Extract Vol:	10000
Injection Vol:	1		

Parameter	CAS Number	Concentration	C	RDL	MDL	Units
RGETS						
OCLOR 1016	12674-11-2	< 5.9	U	19	5.9	ug/Kg
ROCLOR 1221	11104-28-2	< 1.5	U	19	1.5	ug/Kg
OCLOR 1232	11141-16-5	< 9.0	U	19	9.0	ug/Kg
OCLOR 1242	53469-21-9	< 2.5	U	19	2.5	ug/Kg
ROCLOR 1248	12672-29-6	< 6.2	U	19	6.2	ug/Kg
OCLOR 1254	11097-69-1	< 12	U	19	12	ug/Kg
OCLOR 1260	11096-82-5	< 2.3	U	19	2.3	ug/Kg
URROGATES						
achloro-m-xylene	877-09-8	14.19	71 %	24 - 151		SPK: 20
ecachlorobiphenyl	2051-24-3	14.98	75 %	24 - 151		SPK: 20