



Results for PCBs
by EPA 8082

Client Sample ID: MS2-EFS-031-001
Client Project ID: Kuhlman Electric
Lab Sample ID: G442-538-1B
Lab Project ID: G442-538
Sample Wt/Vol: 33.11 ColumnID: STX-CLPest
Report Basis: Dry Weight

Analyzed By: DES
Date Collected: 3/16/2007 10:30
Date Received: 3/23/2007
Date Extracted: 3/28/2007
Matrix: Soil
%SOLIDS: 80.4

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	113	1	04/02/07
Aroclor-1221	BQL	113	1	04/02/07
Aroclor-1232	BQL	113	1	04/02/07
Aroclor-1242	BQL	113	1	04/02/07
Aroclor-1248	BQL	113	1	04/02/07
Aroclor-1254	BQL	113	1	04/02/07
Aroclor-1260	BQL	113	1	04/02/07
Aroclor-1262	BQL	113	1	04/02/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	72.8	72.8
DCBP	100	62.7	62.7

Comments:

BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By:

8082



Results for PCBs
by EPA 8082

Client Sample ID: MS2-Duplicate (MM065)

Client Project ID: Kuhlman Electric

Lab Sample ID: G442-538-4B

Lab Project ID: G442-538

Sample Wt/Vol: 32.61 ColumnID: STX-CLPest

Report Basis: Dry Weight

Analyzed By: DES

Date Collected: 3/19/2007 0:00

Date Received: 3/23/2007

Date Extracted: 4/2/2007

Matrix: Soil

%SOLIDS: 79.5

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	116	1	04/04/07
Aroclor-1221	BQL	116	1	04/04/07
Aroclor-1232	BQL	116	1	04/04/07
Aroclor-1242	BQL	116	1	04/04/07
Aroclor-1248	BQL	116	1	04/04/07
Aroclor-1254	BQL	116	1	04/04/07
Aroclor-1260	BQL	116	1	04/04/07
Aroclor-1262	BQL	116	1	04/04/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	80.6	80.6
DCBP	100	62.0	62.0

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By:

8082



Results for PCBs
by EPA 8082

Client Sample ID: MS2-Duplicate (MM070) Analyzed By: DES
Client Project ID: Kuhlman Electric Date Collected: 3/20/2007 0:00
Lab Sample ID: G442-538-6B Date Received: 3/23/2007
Lab Project ID: G442-538 Date Extracted: 4/2/2007
Sample Wt/Vol: 32.50 ColumnID: STX-CLPest Matrix: Soil
Report Basis: Dry Weight %SOLIDS: 93.1

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	99.1	1	04/04/07
Aroclor-1221	BQL	99.1	1	04/04/07
Aroclor-1232	BQL	99.1	1	04/04/07
Aroclor-1242	BQL	99.1	1	04/04/07
Aroclor-1248	BQL	99.1	1	04/04/07
Aroclor-1254	BQL	99.1	1	04/04/07
Aroclor-1260	BQL	99.1	1	04/04/07
Aroclor-1262	BQL	99.1	1	04/04/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	88	88
DCBP	100	67.9	67.9

Comments:

BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: *fm*

8082



Results for PCBs
by EPA 8082

Client Sample ID: MS2-EFS-038-001 Analyzed By: DES
Client Project ID: Kuhlman Electric Date Collected: 3/21/2007 13:15
Lab Sample ID: G442-538-7B Date Received: 3/23/2007
Lab Project ID: G442-538 Date Extracted: 4/2/2007
Sample Wt/Vol: 32.50 ColumnID: STX-CLPest Matrix: Soil
Report Basis: Dry Weight %SOLIDS: 84.2

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	110	1	04/04/07
Aroclor-1221	BQL	110	1	04/04/07
Aroclor-1232	BQL	110	1	04/04/07
Aroclor-1242	BQL	110	1	04/04/07
Aroclor-1248	BQL	110	1	04/04/07
Aroclor-1254	BQL	110	1	04/04/07
Aroclor-1260	146	110	1	04/04/07
Aroclor-1262	BQL	110	1	04/04/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	78.2	78.2
DCBP	100	59.6	59.6

*Sample was quantitated as Aroclor 1260, but may contain a mixture of Aroclor 1260 and Aroclor 1262.

Comments:

BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: *mm*

8082



Results for PCBs
by EPA 8082

Client Sample ID: MS2-Duplicate (MM076)	Analyzed By: DES
Client Project ID: Kuhlman Electric	Date Collected: 3/21/2007 0:00
Lab Sample ID: G442-538-8B	Date Received: 3/23/2007
Lab Project ID: G442-538	Date Extracted: 4/2/2007
Sample Wt/Vol: 33.65 ColumnID: STX-CLPest	Matrix: Soil
Report Basis: Dry Weight	%SOLIDS: 83.6

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	107	1	04/04/07
Aroclor-1221	BQL	107	1	04/04/07
Aroclor-1232	BQL	107	1	04/04/07
Aroclor-1242	BQL	107	1	04/04/07
Aroclor-1248	BQL	107	1	04/04/07
Aroclor-1254	BQL	107	1	04/04/07
Aroclor-1260	123	107	1	04/04/07
Aroclor-1262	BQL	107	1	04/04/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	87.5	87.5
DCBP	100	67.0	67.0

*Sample was quantitated as Aroclor 1260, but may contain a mixture of Aroclor 1260 and Aroclor 1262.

Comments:

BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: fm

8082



Results for PCBs
by EPA 8082

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB7754

Lab Project ID:

Sample Wt/Vol: 32.0 g ColumnID: STX-CLPest

Report Basis: Dry Weight

Analyzed By: DES

Date Collected:

Date Received:

Date Extracted: 3/28/2007

Matrix: SOIL

%SOLIDS: 100.0

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	31.2	1	04/02/07
Aroclor-1221	BQL	31.2	1	04/02/07
Aroclor-1232	BQL	31.2	1	04/02/07
Aroclor-1242	BQL	31.2	1	04/02/07
Aroclor-1248	BQL	31.2	1	04/02/07
Aroclor-1254	BQL	31.2	1	04/02/07
Aroclor-1260	BQL	31.2	1	04/02/07
Aroclor-1262	BQL	31.2	1	04/02/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	91.2	91.2
DCBP	100	81.5	81.5

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By:

8082



QC Results for PCBs
by EPA 8082

Client Sample ID: Batch QC
Lab Sample ID: G442-538-2B
Batch ID: 7754

Analyzed By: DES
Matrix: SOIL

MS/MSD

Analyte	Sample ug/KG	Spiked ug/KG	MS ug/KG	%REC (Limit 32-142)	Spiked ug/KG	MSD ug/KG	%REC (Limit 32-142)	RPD (Limit 12)
Aroclor-1260	BQL	362	341	94.2	355	362	102	7.95

LCS

Analyte		Spiked ug/KG	Result ug/KG	REC %	Limits	
					Lower	Upper
Aroclor-1260		312.5	282	90.2	70	130

Comments:

= Outside Control Limits

Reviewed by:



Results for PCBs
by EPA 8082

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB7794

Lab Project ID:

Sample Wt/Vol: 32.0 g ColumnID: STX-CLPest

Report Basis: Dry Weight

Analyzed By: DES

Date Collected:

Date Received:

Date Extracted: 4/2/2007

Matrix: SOIL

%SOLIDS: 100.0

Compound	Result ug/KG	Quantitation Limit ug/KG	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	31.2	1	04/04/07
Aroclor-1221	BQL	31.2	1	04/04/07
Aroclor-1232	BQL	31.2	1	04/04/07
Aroclor-1242	BQL	31.2	1	04/04/07
Aroclor-1248	BQL	31.2	1	04/04/07
Aroclor-1254	BQL	31.2	1	04/04/07
Aroclor-1260	BQL	31.2	1	04/04/07
Aroclor-1262	BQL	31.2	1	04/04/07

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	91.4	91.4
DCBP	100	72.8	72.8

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By: *RLM*

8082



QC Results for PCBs
by EPA 8082

Client Sample ID: Batch QC
Lab Sample ID: G135-352-9L
Batch ID: 7794

Analyzed By: DES
Matrix: SOIL

MS/MSD

Analyte	Sample ug/KG	Spiked ug/KG	MS ug/KG	%REC (Limit 32-142)	Spiked ug/KG	MSD ug/KG	%REC (Limit 32-142)	RPD (Limit 12)
Arochlor-1260	BQL	356	315	88.5	377	329	87.3	1.36

LCS

Analyte	Spiked ug/KG	Result ug/KG	REC %	Limits	
				Lower	Upper
Arochlor-1260	312.5	312	99.8	70	130

Comments:

= Outside Control Limits

Reviewed by: *me*



QC Results for PCBs
by EPA 8082

Client Sample ID: Batch QC
Lab Sample ID: G135-352-6C
Batch ID: 7794

Analyzed By: DES
Matrix: SOIL

MS/MSD

Analyte	Sample ug/KG	Spiked ug/KG	MS ug/KG	%REC (Limit 32-142)	Spiked ug/KG	MSD ug/KG	%REC (Limit 32-142)	RPD (Limit 12)
Arochlor-1260	BQL	357	325	91	368	330	89.7	1.44

LCS

Analyte		Spiked ug/KG	Result ug/KG	REC %	Limits	
					Lower	Upper
Arochlor-1260		312.5	312	99.8	70	130

Comments:

= Outside Control Limits

Reviewed by:



List of Reporting Abbreviations and Data Qualifiers

- B = Compound also detected in batch blank
- BQL = Below Quantitation Limit (RL or MDL)
- DF = Dilution Factor
- Dup = Duplicate
- D = Detected, but RPD is > 40% between results in dual column method.
- E = Estimated concentration, exceeds calibration range.
- J = Estimated concentration, below calibration range and above MDL
- LCS(D) = Laboratory Control Spike (Duplicate)
- MDL = Method Detection Limit
- MS(D) = Matrix Spike (Duplicate)
- PQL = Practical Quantitation Limit
- RL = Reporting Limit
- RPD = Relative Percent Difference
- mg/kg = milligram per kilogram, ppm, parts per million
- ug/kg = micrograms per kilogram, ppb, parts per billion
- mg/L = milligram per liter, ppm, parts per million
- ug/L = micrograms per liter, ppb, parts per billion
- % Rec = Percent Recovery
- % solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.



CHAIN OF CUSTODY RECORD

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1 CLIENT: **MARTIN & SARGIS** PHONE NO: ()
 CONTACT: **ROBERT MARTIN** SITE/PWSID#: ()
 PROJECT: **KUKULAN ELECTRIC** E-MAIL:
 REPORTS TO: **SARGIS** FAX NO.: ()
 INVOICE TO: **SARGIS** QUOTE #
 P.O. NUMBER

SGS Reference: **642-538** PAGE () OF ()

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	NO CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	MS2-EFS-031-001	3/16/07	1030	S	1	-	N/A	3	Mobil LAB
	MS2-DUPLOCATE	3/16/07	-	S	1	-			MM060
	MS2-EFS-014-002	19M07	1340	S	1	-			MM062
	MS2-DUPLOCATE	19M07	-	S	1	-			MM063
	MS2-EFS-035-001	28M07	1040	S	1	-			MM065
	MS2-DUPLOCATE	28M07	-	S	1	-			MM068
	MS2-EFS-038-001	24M07	1315	S	1	-			MM070
	MS2-DUPLOCATE	24M07	-	S	1	-			MM075
									MM076

5 Collected/Relinquished By: (1) *Charles Lee* Received By: _____
 Relinquished By: (2) _____ Received By: *John John*
 Relinquished By: (3) _____ Received By: _____
 Relinquished By: (4) _____ Received By: _____

Shipping Carrier: _____
 Shipping Ticket No: _____
 Special Deliverable Requirements: _____
 Requested Turnaround Time and Special Instructions: _____

Samples Received Cold? (Circle) YES NO
 Temperature (C): **4.7°C**
 Chain of Custody Seal: (Circle) INTACT **BROKEN** **ABSENT**