



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

July 08, 2009

Cathy Young (HBR)
USEPA New England, Region I
One Congress Street
Boston, MA. 01224-2023

Project Number: 09060020

Project: St John's Cemetery

Analysis: PCBs Medium Level in Soils and Sediments

Analyst: Peter Philbrook

REP 08-JULY-2009

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

The results are reported on a dry weight basis.

Date Samples Received by the Laboratory : 06/12/2009


Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

 7/13/09
Daniel N. Boudreau
Chemistry Team Leader

Qualifiers:	RL	Reporting limit
	ND	Not Detected above Reporting limit
	NA	Not Applicable due to high sample dilutions or sample interferences
	J	Estimated value
	E	Estimated value exceeds the calibration range
	L	Estimated value is below the calibration range
	B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
	P	The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
	C	The identification has been confirmed by GC/MS.
	R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

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St John's Cemetery

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-01
Date of Collection: 6/9/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.56 grams
Wet Weight Extracted: 5.49 grams

Lab Sample ID: AA95191
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 83%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	0.27	0.11	
37324-23-5	Aroclor-1268	0.42	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	81	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-02
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.41 grams
Wet Weight Extracted: 5.32 grams

Lab Sample ID: AA95192
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 83%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	76	36 - 131
Decachlorobiphenyl	101	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-03
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.43 grams
Wet Weight Extracted: 5.37 grams

Lab Sample ID: AA95193
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 82%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	79	36 - 131
Decachlorobiphenyl	96	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-04
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.34 grams
Wet Weight Extracted: 5.35 grams

Lab Sample ID: AA95194
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 81%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	1.2	0.12	
37324-23-5	Aroclor-1268	1.9	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	85	36 - 131
Decachlorobiphenyl	119	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-05
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.50 grams
Wet Weight Extracted: 5.41 grams

Lab Sample ID: AA95195
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 83%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	76	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-06
Date of Collection: 6/9/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.47 grams
Wet Weight Extracted: 5.34 grams

Lab Sample ID: AA95196
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 84%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	64	36 - 131
Decachlorobiphenyl	90	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-07
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.57 grams
Wet Weight Extracted: 5.19 grams

Lab Sample ID: AA95197
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 88%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	77	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-08
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.23 grams
Wet Weight Extracted: 5.32 grams

Lab Sample ID: AA95198
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 80%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	0.80	0.12	
37324-23-5	Aroclor-1268	1.3	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	86	36 - 131
Decachlorobiphenyl	114	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-09
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.44 grams
Wet Weight Extracted: 5.35 grams

Lab Sample ID: AA95199
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 83%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	0.07	0.11	L

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	81	36 - 131
Decachlorobiphenyl	103	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-10
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.54 grams
Wet Weight Extracted: 5.84 grams

Lab Sample ID: AA95200
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 78%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	0.42	0.11	P
37324-23-5	Aroclor-1268	0.87	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	80	36 - 131
Decachlorobiphenyl	117	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-11
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 5.04 grams
Wet Weight Extracted: 5.59 grams

Lab Sample ID: AA95201
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 90%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	67	36 - 131
Decachlorobiphenyl	110	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-12
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.82 grams
Wet Weight Extracted: 5.74 grams

Lab Sample ID: AA95202
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 84%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	75	36 - 131
Decachlorobiphenyl	103	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-13
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.88 grams
Wet Weight Extracted: 5.78 grams

Lab Sample ID: AA95203
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 84%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	71	36 - 131
Decachlorobiphenyl	90	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-14
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.91 grams
Wet Weight Extracted: 5.78 grams

Lab Sample ID: AA95204
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 85%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	65	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-15
Date of Collection: 6/10/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.74 grams
Wet Weight Extracted: 5.63 grams

Lab Sample ID: AA95205
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 84%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	74	36 - 131
Decachlorobiphenyl	98	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-16
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.03 grams
Wet Weight Extracted: 5.13 grams

Lab Sample ID: AA95206
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 79%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	70	36 - 131
Decachlorobiphenyl	91	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-17
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.06 grams
Wet Weight Extracted: 5.38 grams

Lab Sample ID: AA95207
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 75%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	0.41	0.12	
37324-23-5	Aroclor-1268	0.66	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	84	36 - 131
Decachlorobiphenyl	108	30 - 165

Comments:

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PCBs Medium Level in Soils and Sediments

Client Sample ID: R01081202CY-18
Date of Collection: 6/11/2009
Date of Extraction: 6/23/09
Date of Analysis: 7/2/09
Dry Weight Extracted: 4.72 grams
Wet Weight Extracted: 5.69 grams

Lab Sample ID: AA95208
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 83%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	81	36 - 131
Decachlorobiphenyl	107	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

St John's Cemetery

Laboratory Blank

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 6/23/09
Date of Analysis: 7/1/09
Dry Weight Extracted: 5.00 grams
Wet Weight Extracted: 5.00 grams

Lab Sample ID: N/A
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 100%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	81	36 - 131
Decachlorobiphenyl	95	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

PCB MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

St John's Cemetery

Sample ID: AA95206

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1016	0.90	ND	0.840	93.75	70 - 130
Aroclor-1260	0.90	ND	0.907	101.23	53 - 130

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1016	0.85	0.812	95.53	2	50
Aroclor-1260	0.85	0.877	103.18	2	50

Samples in Batch: AA94755, AA94756, AA94757, AA94758, AA94759, AA95191, AA95192, AA95193, AA95194, AA95195, AA95196, AA95197, AA95198, AA95199, AA95200, AA95201, AA95202, AA95203, AA95204, AA95205, AA95206, AA95207, AA95208

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

LABORATORY DUPLICATE RESULTS

St John's Cemetery

Sample ID: AA95201

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND		50
Aroclor-1221	ND	ND		50
Aroclor-1232	ND	ND		50
Aroclor-1242	ND	ND		50
Aroclor-1248	ND	ND		50
Aroclor-1254	ND	ND		50
Aroclor-1260	ND	ND		50
Aroclor-1262	ND	ND		50
Aroclor-1268	ND	ND		50

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

LABORATORY FORTIFIED BLANK (LFB) AND DUPLICATE (LFB Dup) RECOVERY

COMPOUND	SPIKE ADDED	LFB CONCENTRATION	LFB RECOVERY %	QC LIMITS (% REC)
Aroclor-1016	0.600	0.536	89	70 - 130
Aroclor-1260	0.600	0.578	96	53 - 130

COMPOUND	LFB Dup CONCENTRATION	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
Aroclor-1016	0.524	87	2	50
Aroclor-1260	0.558	93	4	

Samples in Batch: AA94755, AA94756, AA94757, AA94758, AA94759, AA95191, AA95192, AA95193, AA95194, AA95195, AA95196, AA95197, AA95198, AA95199, AA95200, AA95201, AA95202, AA95203, AA95204, AA95205, AA95206, AA95207, AA95208

Comments:

St. John's Cemetery

CHAIN OF CUSTODY RECORD

Site #: R01081202CY

Contact Name: Cathy Young

Contact Phone: 617-680-5470

No: R01081202CY-06/12/09-0006

DateShipped: 6/12/2009

Lab: New England Regional Laboratory

Lab Contact: Doris Guzman

Lab #	Sample #	Location	1262	1268	Collected	Sample Time	Analyses	Matrix	Numb Cont	Container	Preservative
	R01081202CY-01	EX A35	.8	1.1	6/9/2009	11:38	PCB	Soil	1	4 oz Amber	Ice
	R01081202CY-02	EX A-30	.07	.08	6/11/2009	17:51	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-03	EX B-50	ND	ND	6/11/2009	17:38	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-04	EX C00	1.5	1.5	6/10/2009	12:02	PCB	Soil	1	4 oz Amber	Ice
	R01081202CY-05	EX C-80	ND	ND	6/11/2009	17:20	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-06	EX D40	ND	ND	6/9/2009	12:38	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-07	EX D-10 B	.09	.11	6/10/2009	16:48	PCB	Soil	2	4 oz Amber	Ice
	R01081202CY-08	EX E00	.95	.97	6/10/2009	11:55	PCB	Soil	1	4 oz Amber	Ice
	R01081202CY-09	EX E-10 C	.04	.06	6/11/2009	09:54	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-10	EX F-30	.38	.43	6/10/2009	11:26	PCB	Soil	1	4 oz Amber	Ice
	R01081202CY-11	EX G50	.06	.16	6/11/2009	11:21	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-12	EX H10	ND	ND	6/10/2009	10:59	PCB	Soil	2	4 oz Amber	Ice
	R01081202CY-13	EX I-40	ND	ND	6/10/2009	10:53	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-14	EX J-20	ND	ND	6/10/2009	10:38	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-15	EX K10	ND	ND	6/10/2009	10:43	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-16	EX Y-70	ND	ND	6/11/2009	18:03	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-17	EX Z-40	.20	.23	6/11/2009	18:00	PCB	Soil	1	8 oz Amber	Ice
	R01081202CY-18	EX A-30	.07	.08	6/11/2009	17:51	PCB	Soil	1	8 oz Amber	Ice

Special Instructions:

SAMPLES TRANSFERRED FROM	
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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time
	[Signature]	6-12-09	[Signature]	6/12/09	08:05 hrs.